APPENDIX C

FIELD DOCUMENTATION

APPENDIX C-1

BORING LOGS

ENTACT & Associates, LLC
1010 Executive Court, Suite 280
Westmont, Illinois 60559
Telephone: 630.986.2900
Fax: 630.986.0653

BORING NUMBER SB-01-N

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 06/06/06 **COMPLETED** 06/06/06
GROUND ELEVATION 419.5 ft MSL **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	
0	MC 1	63		**SLAG**, black-brown, medium grain, dry	
				3.5	416.0
5	MC 2	65		**SILT**, dark gray, crushed white stone stained greenish-blue crushed stone stained green, trace black slag	
				5.0	414.5
				SAND, brown, fine, well sorted, rounded, moist	
				5.5 **SANDY SILT**, trace fine black slag-like material between 5 and 6 ft, moist brown, moist	414.0
				8.0	411.5
				Bottom of hole at 8.0 feet.	

GENERAL BH / TP / WELL OAZ LOGS.GPJ GINT US.GDT 02/13/08

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BORING NUMBER SB-03-SW

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 06/14/06 **COMPLETED** 06/14/06
GROUND ELEVATION 418.622 ft MSL **HOLE SIZE** 2"
DRILLING CONTRACTOR
GROUND WATER LEVELS:
DRILLING METHOD Hand Auger
AT TIME OF DRILLING ---
LOGGED BY M. Carlson **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 2-inch, stainless steel hand auger
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	
0					
	AU 1	100		SILTY CLAY, dark gray, highly plastic, stiff, moist	
	AU 2	100			
	AU 3	100		trace oxidation patterns	
	AU 4	100			
4.0					414.6

Bottom of hole at 4.0 feet.

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BORING NUMBER SB-04-SW

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 05/30/06 **COMPLETED** 05/30/06
GROUND ELEVATION 421.905 ft MSL **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	
0	MC 1	46		SLAG, black, dry	
					419.9
2.0				CLAY, gray, GRAVEL fill, wet, slight odor	
2.2					419.7
4.0					417.9
5	MC 2	100		SLAG, wet SILTY CLAY, gray, odor	
4.2					417.7
8.0					413.9
				Bottom of hole at 8.0 feet.	

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BORING NUMBER SB-05-SW

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 05/31/06 **COMPLETED** 05/31/06
GROUND ELEVATION 425.135 ft MSL **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION
0	MC 1	63		SLAG, black, fine, mixed with cinders, brick, fill material, dry
5	MC 2	65		lower 1.0 foot is very moist
				end of SLAG down to 9.0 ft, saturated — 9.0 — 416.1
10	MC 3	71		SILTY CLAY, gray, plastic, cohesive, moist
				12.0 — 413.1
				Bottom of hole at 12.0 feet.

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BORING NUMBER SB-06-SW

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 05/31/06 **COMPLETED** 05/31/06
GROUND ELEVATION 420.251 ft MSL **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION
0	MC 1	58		SLAG, black, moist silty mixture, black, fill material, saturated
3.0				417.3
				CLAY, gray, medium stiff, cohesive, plastic, moist
5	MC 2	56		
8.0				soft to medium stiff 412.3
				Bottom of hole at 8.0 feet.

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BORING NUMBER SB-07-SE

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 05/31/06 **COMPLETED** 05/31/06
GROUND ELEVATION 420.812 ft MSL **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	
0					
	MC 1	79		0.5 FILL, crushed asphalt, gravel	420.3
				SLAG, black, cinders, dry	
				2.0 SILTY CLAY, dark gray, medium stiff to stiff, plastic, dry	418.8
				4.0	416.8
				Bottom of hole at 4.0 feet.	

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BORING NUMBER SB-08-SW

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 05/31/06 **COMPLETED** 05/31/06
GROUND ELEVATION 421.306 ft MSL **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	
0					
	MC 1	100		FILL, crushed asphalt, mixed with slag, gravel, dry	
1.0				SLAG, balck cinders, moist	420.3
				CLAY, dark gray, medium stiff, plastic, brownish trace cinders, dry	
4.0					417.3
				Bottom of hole at 4.0 feet.	

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BORING NUMBER SB-09-NE

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 12/13/06 **COMPLETED** 12/13/06
GROUND ELEVATION **HOLE SIZE** 2"
DRILLING CONTRACTOR Roberts Drilling
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY J. Stofferahn **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION
0				
	MC 1	100		0.2 **GRAVEL**, limestone, crushed
				SLAG, slag-like granular fill, mostly very dark gray with some white and yellow
				0.7 **SILTY CLAY**, very dark brown and dark brown mottled silty clay, grading to medium brown and yellow brown silty clay, grading yellow brown silty clay. No stones, slightly moist
				3.8 **CLAYEY SILT**, yellow brown, no stones, moist
				4.0 Bottom of hole at 4.0 feet.

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BORING NUMBER SB-09-NW

CLIENT Blue Tee Corp. **PROJECT NAME** Old American Zinc Plant Site

PROJECT NUMBER C1727 **PROJECT LOCATION** Fairmont City, IL

DATE STARTED 12/13/06 **COMPLETED** 12/13/06 **GROUND ELEVATION** _____ **HOLE SIZE** 2"

DRILLING CONTRACTOR Roberts Drilling **GROUND WATER LEVELS:**

DRILLING METHOD Direct Push **AT TIME OF DRILLING** ---

LOGGED BY J. Stofferahn **CHECKED BY** P. Thomson **AT END OF DRILLING** ---

NOTES Sampler: 4' Macro Core **AFTER DRILLING** ---

DEPTH (ft)	SAMPLE TYPE NUMBER	GRAPHIC LOG	MATERIAL DESCRIPTION
0			
			0.3 **TOPSOIL**, very dark gray organic sitly loam with dark gray slag fill
			SILTY CLAY, very dark brown, grading to dark brown silty clay, grading to medium brown and yellow brown silty clay, grading to yellow brown silty clay. No stones, slightly moist
			3.7 **CLAYEY SILT**, yellow brown, no stones, moist
			4.0 Bottom of hole at 4.0 feet.

GENERAL BH / TP / WELL OAZ LOGS.GPJ GINT US.GDT 02/13/08

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BORING NUMBER SB-09-SE

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 05/31/06 **COMPLETED** 05/31/06
GROUND ELEVATION 418.324 ft MSL **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	
0					
				0.5 FILL, crushed stone/asphalt, topsoil, dry	417.8
				0.8 CLAY, gray, mottled, medium stiff, plastic, dry	417.5
	MC 1	42		SLAG, black, medium grained, moist coarse, wet	
5				5.0	413.3
	MC 2	100		CLAY, gray medium stiff, cohesive, plastic, mottled	
				8.0	410.3
				Bottom of hole at 8.0 feet.	

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BORING NUMBER SB-09-SW

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 12/13/06 **COMPLETED** 12/13/06
GROUND ELEVATION _____ **HOLE SIZE** 2"
DRILLING CONTRACTOR Roberts Drilling
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY J. Stofferahn **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION
0				
	MC 1	100		0.2 **TOPSOIL**, very dark gray, organic, silty loam topsoil, "topsoil" odor **SILTY CLAY**, very dark brown silty clay grading to very dark brown, dark brown and dark gray mottled silty clay. No stones, slightly moist. grading to dark gray, dark brown and medium brown mottled silty clay, grading to medium brown and yellow-brown silty clay, grading to yellow-brown silty clay. No stones, slightly moist
				4.0 yellow-brown silty clay, no stones, moist
				Bottom of hole at 4.0 feet.

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BORING NUMBER SB-10-NW

CLIENT Blue Tee Corp. **PROJECT NAME** Old American Zinc Plant Site

PROJECT NUMBER C1727 **PROJECT LOCATION** Fairmont City, IL

DATE STARTED 12/13/06 **COMPLETED** 12/13/06 **GROUND ELEVATION** _____ **HOLE SIZE** 2"

DRILLING CONTRACTOR Roberts Drilling **GROUND WATER LEVELS:**

DRILLING METHOD Direct Push **AT TIME OF DRILLING** ---

LOGGED BY J. Stofferahn **CHECKED BY** P. Thomson **AT END OF DRILLING** ---

NOTES Sampler: 4' Macro Core **AFTER DRILLING** ---

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0	MC 1			0.3 TOPSOIL, very dark gray, organic silty loam topsoil. Small pieces of glass shards.	
				SILTY CLAY, very dark brown, grading to light brown. No stones, slightly moist	
				2.5 CLAYEY SILT, light brown, grading from moist to very slightly moist	
				3.4 Bottom of hole at 4.0 feet.	

ENVIRONMENTAL BH OAZ LOGS.GPJ GINT US.GDT 07/30/08

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BORING NUMBER SB-11-SE

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 06/04/06 **COMPLETED** 06/04/06
GROUND ELEVATION 419.008 ft MSL **HOLE SIZE** 2"
DRILLING CONTRACTOR
GROUND WATER LEVELS:
DRILLING METHOD Hand Auger
AT TIME OF DRILLING ---
LOGGED BY M. Carlson **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 2-inch, stainless steel hand auger
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	
0	AU 1	100		**SILTY CLAY**, brown-gray silty clay, trace amounts of sand, medium stiff, slightly plastic, slight oxidation, moist	
	AU 2	100		2.0	417.0
	AU 3	100		**CLAY**, gray, slight oxidation, stiff, plastic, moist	
	AU 4	100		4.0	415.0
5	AU 5	100		medium stiff to stiff	
	AU 6	100		6.0	413.0
				Bottom of hole at 6.0 feet.	

GENERAL BH / TP / WELL OAZ LOGS.GPJ GINT US.GDT 02/13/08

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BORING NUMBER SB-12-SW

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 06/01/06 **COMPLETED** 06/01/06
GROUND ELEVATION 420.09 ft MSL **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	
0					
	MC 1	63		SLAG, black, cinders, dry	
3.0				wet	417.1
				SILTY SAND, gray, wet	
3.5					416.6
				SILTY CLAY, dark gray, plastic, soft, moist	
4.0				Bottom of hole at 4.0 feet.	416.1

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BORING NUMBER SB-13-SW

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 06/01/06 **COMPLETED** 06/01/06
GROUND ELEVATION 423.166 ft MSL **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	
0					
	MC 1	69		SLAG, dark brown, fine, dry	
				black coal fragments, cinders, black, dry	
				4.8	418.4
5	MC 2	46		5.4 GRAVEL, light gray to gray, coarse, wet	417.8
				SANDY SILT, gray, very moist	
				7.5	415.7
				CLAYEY SILT, gray, plastic, organic odor	
				8.0 Bottom of hole at 8.0 feet.	415.2

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BORING NUMBER SB-14-NE

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 06/01/06 **COMPLETED** 06/01/06
GROUND ELEVATION 424.085 ft MSL **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	
0					
	MC 1	63		SLAG, fine, black, dry dark gray, coarse construction debris, bricks black, fine, dry	
				4.0	420.1
5				SILTY SAND, red, wet	
				4.5 SLAG, black, coarse, wet	419.6
	MC 2	100		6.0	418.1
				SILTY SAND, gray, trace wood fibers, moist dark gray to black, fines, dry	
				8.0	416.1
				Bottom of hole at 8.0 feet.	

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BORING NUMBER SB-15-SE

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 06/01/06 **COMPLETED** 06/01/06
GROUND ELEVATION 422.717 ft MSL **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	
0					
	MC 1	63		0.5 SLAG, brick and gravel debris	422.2
				SAND, dark brown, fine	
				3.0 mixed with slag, brick and cobble debris	419.7
				FILL, white substance, ash-like, silty, soft, pliable	
				4.0 fragments of white substance mixed with debris	418.7
5				SILTY SAND, brown, fine, no remnants of slag materials, moist	
	MC 2	67		clayey	
				sandy	
				8.0	414.7
				Bottom of hole at 8.0 feet.	

GENERAL BH / TP / WELL OAZ LOGS.GPJ GINT US.GDT 02/13/08

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BORING NUMBER SB-15-SW

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 06/01/06 **COMPLETED** 06/01/06
GROUND ELEVATION **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION
0	MC 1	100	Refusal at 6.5 ft, hit foundation; move boring location east approximately 20 ft; redrill to 8.0 ft		FILL, gravel, dry SLAG, black, fine, dry debris, bricks, trace slag, trace sand, brown, fine, moist
3.0					SILTY SAND, dark brown to black, slag remnants, very moist
5	MC 1	63			coarse, wet gravelly salg, black wet
6.5					Bottom of hole at 6.5 feet.

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BORING NUMBER SB-15-SW-A

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 06/01/06 **COMPLETED** 06/01/06
GROUND ELEVATION 423.335 ft MSL **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	
0					
	MC 1	100		**FILL**, gravel, dry	
0.8					422.5
				SLAG, black, fine, dry	
				debris, bricks, trace sand, brown, fine, moist	
3.0					420.3
				SILTY SAND, dark brown to black, slag fragments, very moist	
				coarse, wet	
5					
	MC 2	100		gravelly slag, black, wet	
6.5					416.8
				CLAYEY SILT, dark gray, medium stiff, organic odor	
7.5					415.8
				SANDY SILT, brown	
8.0				Bottom of hole at 8.0 feet.	415.3

GENERAL BH / TP / WELL OAZ LOGS.GPJ GINT US.GDT 07/30/08

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BORING NUMBER SB-16-SE

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 06/01/06 **COMPLETED** 06/01/06
GROUND ELEVATION 420.704 ft MSL **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	
0					
				0.5 SLAG, black, cinders, dry	420.2
	MC 1	69		0.7 SILTY SAND, brown, slag fragments, dry	420.0
				SLAG, black, fine	
				3.3	417.5
				4.0 CLAYEY SILT, dark gray, fine, moist	416.7
				Bottom of hole at 4.0 feet.	

GENERAL BH / TP / WELL OAZ LOGS.GPJ GINT US.GDT 02/13/08

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BORING NUMBER SB-17-SW

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 05/31/06 **COMPLETED** 05/31/06
GROUND ELEVATION 422.732 ft MSL **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	
0					
	MC 1	100		0.5 FILL, gravel, asphalt, rotomill, gray, dry	422.2
				CLAY, dark gray, stiff, dry	
				1.0 SLAG	421.7
				1.3 SILTY CLAY, gray, medium stiff, plastic	421.4
5					
	MC	100		5.5 slag mix	417.2
				brown	
				6.0 SILTY SAND, brown, fine, moist	416.7
				6.3 SLAG, black, moist, fill material	416.4
				SANDY SILT, brown, slag fragments, moist	
				6.5 Refusal at 6.75 ft; encountered wood with creosote odor, potential railroad tie	416.2
				6.8 Bottom of hole at 6.8 feet.	416.0

GENERAL BH / TP / WELL OAZ LOGS.GPJ GINT US.GDT 02/13/08

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BORING NUMBER SB-18-NE

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 05/31/06 **COMPLETED** 05/31/06
GROUND ELEVATION 421.212 ft MSL **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	
0					
	MC 1	83		FILL, asphalt, crushed stone, dry SLAG, black, medium grain, dry moist	
2.5					418.7
				SILTY CLAY, gray, brown mottled silty clay, stiff, plastic, dry	
4.0					417.2
				Bottom of hole at 4.0 feet.	

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BORING NUMBER SB-19-SE

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 05/31/06 **COMPLETED** 05/31/06
GROUND ELEVATION 419.87 ft MSL **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	
0					
	MC 1	65		0.5 TOPSOIL, dark brown, dry	419.4
				SLAG, black, fine, cinders/powdery, dry	
				moist	
				brick debris, gravel, coarse slag	
5					
	MC 2	63		5.5 wet	414.4
				SILTY CLAY, gray, soft, wet	
				medium stiff, cohesive, plastic	
				8.0 stiff	411.9
				Bottom of hole at 8.0 feet.	

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BORING NUMBER SB-20-SE

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 06/07/06 **COMPLETED** 06/07/06
GROUND ELEVATION 420.65 ft MSL **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	
0					
	MC 1	67		0.5 TOPSOIL, dark brown, stiff, grass, trace roots and trace gravel	420.2
				DEBRIS, bricks fragments coated with dry, hard, black metallic substance	
				2.0 CLAYEY SILT, dark gray, dry	418.7
				4.0	416.7
				Bottom of hole at 4.0 feet.	

GENERAL BH / TP / WELL OAZ LOGS.GPJ GINT US.GDT 02/13/08

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BORING NUMBER SB-21-SE

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 06/07/06 **COMPLETED** 06/07/06
GROUND ELEVATION 424.327 ft MSL **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	
0	MC 1	79		SLAG, black, ground, dry brick debris pieces of crushed stone covered with light purple substance, porous, dry slag, black, fine, moist rock pieces, very porous, white, dry	
4.5				slag, black, fine, wet	419.8
5	MC 2	100		CLAYEY SILT, dark gray, cohesive, plastic, mottled slivers of clear, crystals, veins of oxidation	
7.0					417.3
8.0				SANDY SILT, brown, trace fragments of black slag, dry	416.3
				Bottom of hole at 8.0 feet.	

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BORING NUMBER SB-22-SE

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 06/01/06 **COMPLETED** 06/01/06
GROUND ELEVATION 422.186 ft MSL **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	
0					
				SLAG, black, fine, mixed with brick debris	
1.0					421.2
	MC 1	77		SANDY SILT, dark gray, dry	
				brown	
				light brown	
4.0					418.2
				Bottom of hole at 4.0 feet.	

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BORING NUMBER SB-23-NE-A

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 06/07/06 **COMPLETED** 06/07/06
GROUND ELEVATION 425.178 ft MSL **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION
0	MC 1	79		SLAG, black, ground, fine to medium grain, dry
3.5				421.7
				SANDY SILT, dark gray, brick debris, trace slag, dry
4.0				421.2
5	MC 2	100		SILTY SAND, dark gray, dry brown, fine, well sorted, moist very moist
8.0				417.2
				Bottom of hole at 8.0 feet.

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BORING NUMBER SB-24-SE

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 06/07/06 **COMPLETED** 06/07/06
GROUND ELEVATION 421.556 ft MSL **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	
0					
	MC 1	58		SLAG, black, fine to medium, brick debris	
				clay pot fragments, glazed, kiln dried, purple/gray, brick and rock debris	
5				coarse slag, wet	
				5.0	416.6
	MC 2	100		CLAYEY SILT, dark gray, cohesive, moist	
				6.0	415.6
				SILTY CLAY, dark gray, medium stiff to stiff, plastic	
				8.0	413.6
				Bottom of hole at 8.0 feet.	

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BORING NUMBER SB-25-SW

CLIENT Blue Tee Corp. **PROJECT NAME** Old American Zinc Plant Site

PROJECT NUMBER C1727 **PROJECT LOCATION** Fairmont City, IL

DATE STARTED 06/14/06 **COMPLETED** 06/14/06 **GROUND ELEVATION** 422.502 ft MSL **HOLE SIZE** 2"

DRILLING CONTRACTOR GeoServe, Inc. **GROUND WATER LEVELS:**

DRILLING METHOD Direct Push **AT TIME OF DRILLING** ---

LOGGED BY M. Gotto **CHECKED BY** P. Thomson **AT END OF DRILLING** ---

NOTES Sampler: 4' Macro Core **AFTER DRILLING** ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	
0					
	MC 1	73		SLAG, black, ground fine to medium, bits of glass, gravel and large pieces of slag	
				sandy-silt, brown, some oxidation, light gray mottled sandy silt	
				3.7 brick debris	418.8
5				CLAYEY SILT, dark gray, soft to medium stiff, plastic, moist brown, gray mottled clayey silt, medium stiff, slightly sandy	
	MC 2	71		6.0 SANDY SILT, brown, plastic, moist	416.5
				8.0	414.5
				Bottom of hole at 8.0 feet.	

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BORING NUMBER SB-26-NW

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 06/13/06 **COMPLETED** 06/13/06
GROUND ELEVATION 422.688 ft MSL **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	
0					
				0.6 BACKFILL, debris, slag, black, fine, trace soil, dry	422.1
				crushed gravel some pieces, gray stained, stained purple, dry	
	MC 1	77		0.8 SANDY SILT, brown, black streaks, fine slag	421.9
				black, coal fragments	
				brown, black streaking, pieces of rebar	
				3.5 brown, some oxidation, pieces of coal fragments, black	419.2
				4.0 SAND, foundary sand bottom, brown, medium, well sorted, dry	418.7
5				CLAYEY SILT, dark gray, oxidation, mottled, stiff to hard	
	MC 2	85		6.0	416.7
				CLAY, very hard, dark gray, some oxidation, plastic, dry	
				brown, dark gray mottled clay	
				8.0 hard, plastic, dry	414.7

Bottom of hole at 8.0 feet.

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BORING NUMBER SB-27-NE

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 06/14/06 **COMPLETED** 06/14/06
GROUND ELEVATION 421.433 ft MSL **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	
0				SLAG, black, fine, dry	
	MC 1	75		medium, clayey silt lense, black mottled clayey silt, trace slag	
2.0				slag, black, medium, dry	419.4
2.8				SILT, clayey, sandy, brown, black mottled sandy-clayey silt lense, small coal-like pieces, dry	418.6
				CLAYEY SILT, dark gray, brown mottled clayey silt, soft, dry	
4.0				medium stiff, black mottled clayey silt	417.4
				Bottom of hole at 4.0 feet.	

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BORING NUMBER SB-27-SE

CLIENT Blue Tee Corp. **PROJECT NAME** Old American Zinc Plant Site

PROJECT NUMBER C1727 **PROJECT LOCATION** Fairmont City, IL

DATE STARTED 06/14/06 **COMPLETED** 06/14/06 **GROUND ELEVATION** 421.729 ft MSL **HOLE SIZE** 2"

DRILLING CONTRACTOR GeoServe, Inc. **GROUND WATER LEVELS:**

DRILLING METHOD Direct Push **AT TIME OF DRILLING** ---

LOGGED BY M. Gotto **CHECKED BY** P. Thomson **AT END OF DRILLING** ---

NOTES Sampler: 4' Macro Core **AFTER DRILLING** ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	
0	MC 1	60	PID reading 152 for 2 to 3-foot interval; sample submitted to lab for VOC analysis		SLAG, black, fine, some soil and trace roots, dry brick debris oxidation of slag coarse, fill debris	
					4.0	417.7
5	MC 2	85			CLAY, dark gray, soft, plastic, moist brown, light gray mottled clay, medium stiff	
					6.0	415.7
					SANDY CLAY, brown, gray mottley sandy clay, medium stiff, plastic, moist	
					8.0 soft	413.7
					Bottom of hole at 8.0 feet.	

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BORING NUMBER SB-28-SW

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 06/07/06 **COMPLETED** 06/07/06
GROUND ELEVATION 422.309 ft MSL **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	
0					
	MC 1	100		0.5 SLAG, fine, black, mixed with asphalt, gravel	421.8
				sand, brown, crushed concrete debris, concrete porous, dry	
				slag, black, fine to medium, trace concrete pieces stained purple and yellow-green, dry	
5				fill, gray, crushed stone, fine powder, dry	
				slag, black, coarse, moist	
	MC 2	100		rust-colored, pasty substance	
				6.0 CLAYEY SILT, dark gray, cohesive, soft	416.3
				medium stiff, mottled, oxidized, medium gray veining	
				8.0 trace fine black silty clay streaks at bottom	414.3
				Bottom of hole at 8.0 feet.	

GENERAL BH / TP / WELL OAZ LOGS.GPJ GINT US.GDT 02/13/08

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BORING NUMBER SB-29-NW

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 06/06/06 **COMPLETED** 06/06/06
GROUND ELEVATION 420.92 ft MSL **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	
0					
				0.5 GRAVEL, mixed with slag, black, fine, dry	420.4
	MC 1	79		cobble-size coal	
				1.0 SLAG, brown-black, medium coarse	419.9
				3.0	417.9
				SAND, brown, medium, rounded, dry	
				moist	
5				5.0 wet	415.9
	MC 2	100		CLAYEY SILT, dark gray, trace roots, medium stiff, cohesive	
				gray, no roots	
				8.0	412.9
				Bottom of hole at 8.0 feet.	

GENERAL BH / TP / WELL OAZ LOGS.GPJ GINT US.GDT 02/13/08

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BORING NUMBER SB-31-NE

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 06/19/06 **COMPLETED** 06/19/06
GROUND ELEVATION 419.632 ft MSL **HOLE SIZE** 2"
DRILLING CONTRACTOR
GROUND WATER LEVELS:
DRILLING METHOD Hand Auger
AT TIME OF DRILLING ---
LOGGED BY M. Carlson **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 2-inch, stainless steel hand auger
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION
0				SILTY CLAY, olive gray, trace sand, medium stiff, slightly plastic, trace oxidation patterns, moist
	AU 1	100		soft, plastic, trace oxidation, moist
4.0				415.6
				Bottom of hole at 4.0 feet.

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BORING NUMBER SB-32-NE

CLIENT Blue Tee Corp. **PROJECT NAME** Old American Zinc Plant Site

PROJECT NUMBER C1727 **PROJECT LOCATION** Fairmont City, IL

DATE STARTED 06/06/06 **COMPLETED** 06/06/06 **GROUND ELEVATION** 423.478 ft MSL **HOLE SIZE** 2"

DRILLING CONTRACTOR GeoServe, Inc. **GROUND WATER LEVELS:**

DRILLING METHOD Direct Push **AT TIME OF DRILLING** ---

LOGGED BY M. Gotto **CHECKED BY** P. Thomson **AT END OF DRILLING** ---

NOTES Sampler: 4' Macro Core **AFTER DRILLING** ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	
0				SLAG, dark brown, medium grain, dry	
	MC 1	73		sludge, light brown/gray, paste-like, soft, mixed with slag, moist	
				light blue gravel, speckled, dry	
				slag, black, medium grain, moist	
				brownish, rust-colored	
				4.5 wet	419.0
5				SILT, dark gray, moist	
	MC 2	100		5.5 SLAG, black, medium grain, some cobble-size pieces, wet	418.0
				6.5 CLAYEY SILT, dark gray, cohesive, slightly moist	417.0
				7.5 SILTY CLAY, gray, medium stiff, plastic, dry	416.0
				8.0 Bottom of hole at 8.0 feet.	415.5

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BORING NUMBER SB-33-NW

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 06/09/06 **COMPLETED** 06/09/06
GROUND ELEVATION 424.93 ft MSL **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION
0				ROTOMILL, gravel, crushed asphalt, gray, large chunks of concrete, dry
1.0				423.9
	MC 1	75		SLAG, black, fine to medium, dry 3-inch rubber-like tube, black, slag filled, rubber sleeve gray, strong petroleum odor slag, black, some stone and brick debris large stone with black glazed top, debris
4.5				slag, black, medium coarse, moist, wood debris 420.4
5				SAND, brown, medium, poorly sorted, mixed with debris, moist
5.0				419.9
	MC 2	31		SANDY CLAY, brown, black mottled sandy clay, plastic, dry brown
8.0				416.9
				Bottom of hole at 8.0 feet.

GENERAL BH / TP / WELL OAZ LOGS.GPJ GINT US.GDT 02/13/08

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BORING NUMBER SB-33-SE

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 06/09/06 **COMPLETED** 06/09/06
GROUND ELEVATION 424.485 ft MSL **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	
0					
	MC 1	100		0.5 ROTOMILL, mixed with gravel, dry	424.0
				SLAG, black, medium to coarse, dry	
				1.0 SAND, gray, well sorted, rounded, medium grain, some gravel	423.5
				2.0 CLAYEY SILT, black, moist, mixed with yellow brick debris, some purple staining on brick	422.5
				3.0 SLAG, black, fine, very moist, ground pieces of black coal	421.5
5	MC 2	100		black sand, slag-like, fine, wet, odor	
				7.0 CLAYEY SILT, black, crumbles easily, dry	417.5
				8.0	416.5
				Bottom of hole at 8.0 feet.	

GENERAL BH / TP / WELL OAZ LOGS.GPJ GINT US.GDT 02/13/08

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BORING NUMBER SB-33-SW

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 06/08/06 **COMPLETED** 06/08/06
GROUND ELEVATION 424.225 ft MSL **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	
0					
	MC 1	77		SLAG, dark brown, coarse, dry black black sand, slag-like, fine, dry dark brown light brown-reddish, dry moist	
5				5.0 wet	419.2
	MC 2	100		CLAYEY SILT, medium gray, light gray mottled clayey silt, moist dark gray, small amount of oxidation, some clear crystals speckled throughout, plastic, dry	
				7.0 SILTY CLAY, brown, dark gray mottled silty clay, dry	417.2
				7.5 SANDY CLAY, brown, clear crystals speckled, dark brown mottled sandy clay, dry	416.7
				8.0 Bottom of hole at 8.0 feet.	416.2

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BORING NUMBER SB-34-NE

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 06/12/06 **COMPLETED** 06/12/06
GROUND ELEVATION 424.408 ft MSL **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	
0					
	MC 1	65		0.5 ROTOMILL, crushed asphalt, gravel, black, dry	423.9
				SLAG, slag-like material, black, medium, slightly moist	
				2.0 concrete debris	422.4
				SAND, brown, well sorted, medium to coarse, rounded, moist	
5	MC 2	100		6.5	417.9
				SLAG, slag-like material, black, moist, gritty, fine to medium grains	
				7.5 SILT, clayey, black, gritty, soft, moist	416.9
				8.0 CLAYEY SILT, black, medium stiff, plastic	416.4
10	MC 3	38		10.0	414.4
				SILTY CLAY, dark gray, stiff, cohesive, plastic	
				medium gray, some brown mottled clay	
				12.0	412.4
				Bottom of hole at 12.0 feet.	

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BORING NUMBER SB-35-NE

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 06/13/06 **COMPLETED** 06/13/06
GROUND ELEVATION 422.555 ft MSL **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	
0					
	MC 1	65		0.1 **SLAG**, black, dry	422.4
				0.9 concrete	421.7
				1.0 wood	421.6
				2.5 **SANDY SILT**, gray, black mottled sandy silt	420.1
				SLAG, brown/black, medium to coarse grained, oxidized, dry	
				4.0	418.6
5				**CLAYEY SILT**, dark gray, brown mottled clayey-silt, some oxidation, medium stiff, plastic, moist	
	MC 2	100		6.0	416.6
				CLAY, brown, stiff	
				7.5	415.1
				SANDY SILT, brown, moist	
				8.0	414.6
				Bottom of hole at 8.0 feet.	

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BORING NUMBER SB-35-NW

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 06/13/06 **COMPLETED** 06/13/06
GROUND ELEVATION 422.281 ft MSL **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	
0	MC 1	79		SLAG, black, medium grains, oxidized, dry	
				wood fragments, organic	
3.5				coarse, moist	418.8
4.5				SILT, orange-brown, mixed with slag, black mottled sandy silt, grainy, wet	417.8
5	MC 2	65		STONES, cobble-size, covered with black, coarse slag, wet	
5.0				CLAYEY SILT, dark gray, yellow streaks, plastic, medium stiff	417.3
7.0				CLAY, gray, stiff, plastic	415.3
8.0					414.3
				Bottom of hole at 8.0 feet.	

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BORING NUMBER SB-36-NE

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 06/13/06 **COMPLETED** 06/13/06
GROUND ELEVATION 421.453 ft MSL **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Carlson **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	
0					
	MC 1	82		SLAG, black, cindery, trace sand	
				1.0	420.5
				CLAY SEAM, brown, medium soft, plastic, moist	
				1.4 SLAG, cindery, black	420.1
				1.8 SAND, well sorted, moist	419.7
				3.0 SLAG, black, cindery, moist	418.5
				4.3	417.2
5				SILTY CLAY, dark gray, medium stiff, moist	
	MC 2	65		5.6	415.9
				CLAY, dark gray, medium stiff, low moisture, plastic	
				8.0	413.5
				Bottom of hole at 8.0 feet.	

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BORING NUMBER SB-37-NE

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 06/07/06 **COMPLETED** 06/07/06
GROUND ELEVATION 421.063 ft MSL **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	
0	MC 1	60		SLAG, ground, black, medium to fine, dry brick debris, glazed and stained rock fragments, purple, yellow, dry sand, black, fine, ground fine slag, moist	
4.5				glass fragments, dry	416.6
5	MC 2	56		SILT, dark gray, trace slag	
6.0				SAND, brown, well sorted, medium grain, trace slag, moist	415.1
6.5				CLAYEY SILT, dark gray, plastic, dry	414.6
8.0					413.1

Bottom of hole at 8.0 feet.

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BORING NUMBER SB-38-SE

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 06/06/06 **COMPLETED** 06/06/06
GROUND ELEVATION 421.59 ft MSL **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION
0	MC 1	88		SLAG, black, fine to medium grain, trace gravel, dry
				medium to coarse grain, dry
5	MC 2	71		
				wet
				9.3 412.3
10	MC 3	100		CLAYEY SILT, dark gray, cohesive, trace roots, medium stiff, very moist
				12.0 moist 409.6
				Bottom of hole at 12.0 feet.

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BORING NUMBER SB-39-NW

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 06/20/06 **COMPLETED** 06/20/06
GROUND ELEVATION 418.803 ft MSL **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	
0					
	MC 1	96		0.5 SILT, silt-like, fines, dark gray, dry	418.3
				CLAYEY SILT, dark gray, plastic, dry, some oxidation with bits of moisture	
				slight brown mottling, dry	
				4.0	414.8
5				SILTY CLAY, gray, medium stiff, plastic	
	MC 2	100		6.0	412.8
				SANDY, SILTY CLAY, brown, medium stiff, gray mottled, small amounts of oxidation	
				7.0	411.8
				SILTY CLAY, brown, gray mottled silty clay, stiff, slightly moist	
				7.5 SANDY CLAY, gray, brown mottled, stiff, dry	411.3
				7.8 SAND, gray, fines, well sorted, some oxidation, dry	411.0
				Bottom of hole at 8.0 feet.	
				8.0	410.8

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BORING NUMBER SB-39-SE

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 06/19/06 **COMPLETED** 06/19/06
GROUND ELEVATION 418.803 ft MSL **HOLE SIZE** 2"
DRILLING CONTRACTOR
GROUND WATER LEVELS:
DRILLING METHOD Hand Auger
AT TIME OF DRILLING ---
LOGGED BY M. Carlson **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 2-inch, stainless steel hand auger
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION
0	AU 1	100		SILTY CLAY, olive gray, trace sand particles, moist
				medium stiff, plastic, intermittant oxidation patterns
3.5				415.3
				Bottom of hole at 3.5 feet.

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BORING NUMBER SB-39-SW

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 06/19/06 **COMPLETED** 06/19/06
GROUND ELEVATION 418.803 ft MSL **HOLE SIZE** 2"
DRILLING CONTRACTOR
GROUND WATER LEVELS:
DRILLING METHOD Hand Auger
AT TIME OF DRILLING ---
LOGGED BY M. Carlson **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 2-inch, stainless steel hand auger
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION
0	AU 1	100		SILTY CLAY, olive gray, trace sand particles, soft, plastic, very moist
3.0				415.8
				Bottom of hole at 3.0 feet.

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BORING NUMBER SB-40-NE

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 06/19/06 **COMPLETED** 06/19/06
GROUND ELEVATION 418.803 ft MSL **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Hand Auger
AT TIME OF DRILLING ---
LOGGED BY M. Carlson **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 2-inch, stainless steel hand auger
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION
0				
	AU 1	100		SILTY CLAY, olive gray, trace sand, slightly oxidized in areas, slightly moist, medium stiff, slightly plastic, dry
4.0				414.8
				Bottom of hole at 4.0 feet.

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BORING NUMBER SB-40-NW

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 06/19/06 **COMPLETED** 06/19/06
GROUND ELEVATION 418.803 ft MSL **HOLE SIZE** 2"
DRILLING CONTRACTOR
GROUND WATER LEVELS:
DRILLING METHOD Hand Auger
AT TIME OF DRILLING ---
LOGGED BY M. Carlson **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 2-inch, stainless steel hand auger
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	
0					
	AU 1	100		0.5 SILTY CLAY, olive gray, trace sand, soft, slightly plastic, moist	418.3
				CLAY, olive gray, trace sand, oxidation patterns, soft, plastic, moist	
				4.0	414.8
				Bottom of hole at 4.0 feet.	

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BORING NUMBER SB-41-SW

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 06/02/06 **COMPLETED** 06/02/06
GROUND ELEVATION 423.062 ft MSL **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION
0	MC 1	73		SLAG, black, medium grain, dry trace unknown white silty substance unknown white, ash-like substance, pasty, pliable, creamy, moist, soft slag, black, sandy, medium grain, moist
5	MC 2	77		light gray to olive gray, coarse, wet 5.5 417.6 SILT, dark gray, fine, plastic mottled 8.0 415.1 Bottom of hole at 8.0 feet.

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BORING NUMBER SB-42-NE

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 06/09/06 **COMPLETED** 06/09/06
GROUND ELEVATION 422.569 ft MSL **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	
0					
	MC 1	60		SLAG, black, fine to coarse, dry brick, construction debris, wet	
				3.0	419.6
				SILTY CLAY, yellow-tan, plastic, oxidation present, moist light ash gray, black mottled silty clay dark gray, speckled with white crystals brown, black mottled silty clay, specs of white crystals, dry	
5	MC 2	60		6.0 brown, mostly oxidized	416.6
				SANDY CLAY, brown, plastic, dry	
				8.0	414.6
				Bottom of hole at 8.0 feet.	

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BORING NUMBER SB-43-NE

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 06/12/06 **COMPLETED** 06/12/06
GROUND ELEVATION 422.883 ft MSL **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	
0					
	MC 1	48		SLAG, black, wood chips	
				1.0 dark brown, coarse, dry	421.9
				CONCRETE, crushed mixed with clayey silt, light gray, brick debris, trace black cinders, moist	420.9
				2.0 CLAYEY SILT, light gray, very moist	
				3.3 white pasty material, yellow, coarse to cobble-size stones, very moist	419.6
				3.5 SLAG-LIKE MATERIAL or cindery-like material, black, very moist	419.4
5				CLAYEY SILT, olive gray, plast, dry	
	MC 2	79		4.8 dark gray, speckled white crystals, slight rubber odor, yellow-white mottled ashy material	418.1
				CLAY, gray, medium stiff, white crystals speckled throughout, plastic, dry	
				light gray, stiff, brown-olive gray mottled clay	
				brown, light gray mottled clay	
10	MC 3	58			
				11.0	411.9
				CLAYEY SILT, light yellow, plastic, dry approximately 3 inches	
				12.0 bottom 0.5 inches clayey silt, light gray easily crumbled, dry	410.9
				Bottom of hole at 12.0 feet.	

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BORING NUMBER SB-43-NW

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 06/12/06 **COMPLETED** 06/12/06
GROUND ELEVATION 422.857 ft MSL **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	
0					
0.5	MC 1	75		SLAG, black medium, moist	422.4
1.0				SANDY SILT, brown, black mottled sandy silt	
1.5				DEBRIS, yellow crushed brick	421.9
2.0				SLAG, black, ground, medium, moist	421.4
3.2				SILTY CLAY, dark gray, medium stiff, black mottled silty clay, mixed with black shiny medium grain pieces and white crystals	420.9
4.0				dark red brick fragments	419.7
				SILTY CLAY, dark gray, medium stiff, dry, white pasty residues, some crystals	
				some pieces of black shiny specs	418.9
				Bottom of hole at 4.0 feet.	

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BORING NUMBER SB-43-SE

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 06/12/06 **COMPLETED** 06/12/06
GROUND ELEVATION 422.649 ft MSL **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	
0					
	MC 1	60		SLAG, black fine to medium, slightly moist	
				1.0 brick debris, wood chunks, trace sandy silt, brown, wet	421.6
				1.7 CONCRETE	420.9
				SLAG, coarse, mixed with brick debris, dry	
5				slag like material, brown/black, coarse, large stone with light purple colorations	
				5.0	417.6
	MC 2	100		SILTY CLAY, dark gray, yellow veining, some minor oxidation	
				6.0	416.6
				CLAY, gray, brown mottled clay, medium stiff, moist	
				8.0	414.6
				Bottom of hole at 8.0 feet.	

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BORING NUMBER SB-43-SW

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 06/12/06 **COMPLETED** 06/12/06
GROUND ELEVATION 422.844 ft MSL **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	
0					
	MC 1	60		0.5 SLAG, black, ground, dry	422.3
				SANDY SILT, brown, mixed with brick and construction debris, moist	
				2.0 light gray, beige mottled sandy silt	420.8
				CLAYEY SILT, brown, moist	
				3.0 slag-like material, black, moist	419.8
				CLAYEY SILT, black, plastic, some greenish mottled clayey silt, moist	
5	MC 2	81		dark gray, gravel sized rocks, subangular, greenish-tan colored with yellow staining, medium stiff, moist	
				gray	
				brown mottled clayey silt	
				8.0	414.8

Bottom of hole at 8.0 feet.

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BORING NUMBER SB-44-NE

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 06/13/06 **COMPLETED** 06/13/06
GROUND ELEVATION 422.757 ft MSL **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	
0				SLAG, black, fine, soft, dry	
	MC 1	60		medium grain, dark brown, trace light blue medium grain pieces	
2.5				black	420.3
3.0				SANDY SILT, gray, fill debris, white pasty ash, trace roots	419.8
				CONCRETE	
3.5				CLAY, gray, soft, plastic, dark brown and black mottled clay, moist	419.3
4.0				dark gray bottom 1.0 inch	418.8
				Bottom of hole at 4.0 feet.	

GENERAL BH / TP / WELL OAZ LOGS.GPJ GINT US.GDT 02/13/08

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BORING NUMBER SB-45-NE

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 06/07/06 **COMPLETED** 06/07/06
GROUND ELEVATION 421.647 ft MSL **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	
0					
	MC 1	69		0.5 ROTOMILL, asphalt, gravel mix, gray, dry	421.1
				SLAG, black, fine, sandy, dry	
				2.0 ground, medium grain, dry	419.6
				SILTY SAND, dark gray, fine, moist	
				3.8	417.8
5				4.0 CLAYEY SILT, gray, mottled, soft	417.6
	MC 2	25		SILTY CLAY, dark gray, cohesive, medium stiff, dry	
				6.0	415.6
				CLAY, gray, stiff	
				8.0	413.6

Bottom of hole at 8.0 feet.

GENERAL BH / TP / WELL OAZ LOGS.GPJ GINT US.GDT 02/13/08

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BORING NUMBER SB-46-SW

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 06/06/06 **COMPLETED** 06/06/06
GROUND ELEVATION 422.063 ft MSL **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	
0					
	MC 1	71		0.5 ROTOMILL/ASPHALT mixed with gravel, soil, dry	421.6
				SLAG, fine, black, mixed with sandy silt, dry	
				coarse, approximately 1-inch white/gray gravel, with glue-like residue, hard, opalescent	
				brick debris	
5				slag, black, coarse, dry	
	MC 2	100		approximately 7-inches of wood, wet, no odor	
				end of slag at 6.5 ft	
				6.5 SILT, dark gray, stiff, trace roots, moist	415.6
				7.5 CLAYEY SILT, plastic, moist	414.6
				8.0 Bottom of hole at 8.0 feet.	414.1

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BORING NUMBER SB-47-SE

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 06/05/06 **COMPLETED** 06/05/06
GROUND ELEVATION 421.185 ft MSL **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	
0					
				0.5 TOPSOIL, roots, ground slag, black, coarse, dry	420.7
	MC 1	77		SILT, gray 0.7 SLAG, cobble-size, gravel, brick debris black, very fine, moist	420.5
				3.5 SILT, dark gray, trace slag chips, stiff mottled, medium stiff, cohesive, dry	417.7
5	MC 2	100		gray, trace fine slag 6.5	414.7
				SANDY SILT, gray, moist soft, moist 8.0	413.2
				Bottom of hole at 8.0 feet.	

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BORING NUMBER SB-48-NE

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 06/06/06 **COMPLETED** 06/06/06
GROUND ELEVATION 420.953 ft MSL **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	
0					
	MC 1	85		0.5 TOPSOIL, grass, trace roots and gravel, dry	420.5
				CLAYEY SILT, dark gray, stiff, dry	
				2.0	419.0
				SANDY SILT, dark gray	
				2.5 CLAYEY SILT, dark brown, stiff, gray mottling, dry	418.5
				sandy, brown, cohesive, stiff, dry	
				4.0	417.0
				Bottom of hole at 4.0 feet.	

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BORING NUMBER SB-49-SW

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 06/05/06 **COMPLETED** 06/05/06
GROUND ELEVATION 420.742 ft MSL **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	
0					
	MC 1	63		SLAG, black, ground, dry	
1.0					419.7
				CLAYEY SILT, dark gray, plastic, soft	
2.0					418.7
				SILTY CLAY, gray, trace oxidation (orange-brown veining), cohesive, soft	
4.0				medium stiff, dry	416.7
				Bottom of hole at 4.0 feet.	

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BORING NUMBER SB-50-SE

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 06/02/06 **COMPLETED** 06/02/06
GROUND ELEVATION 423.108 ft MSL **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	
0					
	MC 1	58		0.5 ASPHALT/ROTOMILL, crushed gravel, dry	422.6
				SLAG, brown, mixed with debris, brick, white ash crushed stone, white with bluish-purple traces of ash slag, black, fine, mixed with brick debris, medium coarse, dry	
5				5.5	417.6
	MC 2	46		CLAYEY SILT, dark gray, plastic, very moist dry	
				8.0	415.1
				Bottom of hole at 8.0 feet.	

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BORING NUMBER SB-51-NE

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 06/09/06 **COMPLETED** 06/09/06
GROUND ELEVATION 421.339 ft MSL **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	
0					
	MC 1	81		0.5 GRAVEL, fill, ground slag, black, dry	420.8
				SLAG, black, medium to fine grain, dry	
				silty, mixed with debris, moist	
5	MC 2	100		6.0	415.3
				SILTY CLAY, dark gray, some small crystalline structures, plastic, medium stiff	
				very dark gray	
				8.0	413.3
	MC 3	100		CLAYEY SILT, dark gray, mixed with gravel, wet	
				9.0	412.3
10				SILTY CLAY, gray, medium stiff, small amounts of oxidation, moist	
				medium gray, stiff	
				light brown mottled silty clay	
				12.0	409.3
	MC 4	100		SANDY SILT, brown	
15				16.0	405.3
				Bottom of hole at 16.0 feet.	

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BORING NUMBER SB-51-SE

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 06/09/06 **COMPLETED** 06/09/06
GROUND ELEVATION 420.664 ft MSL **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	
0					
	MC 1	100		0.5 ASPHALT/ROTOMILL, mixed with gravel, dry	420.2
				SLAG, black, medium to coarse grain, dry	
				crushed brick debris, yellow	
				2.0 slag particles mixed with clayey silt, black	418.7
				reddish-brown	
				3.5 SILTY CLAY, gray, black mottled sitly clay, small amounts of oxidation, dry	417.2
				4.0 SANDY CLAY, brown, black mottled sandy clay, dry; bottom 3-inches are black	416.7
5				SILTY CLAY, dark gray, brown mottled silty clay, medium stiff, dry	
	MC 2	100		small amounts of oxidation	
				small amounts of white crystals speckled throughout silty clay	
				gray, medium stiff	
				8.0	412.7

Bottom of hole at 8.0 feet.

GENERAL BH / TP / WELL OAZ LOGS.GPJ GINT US.GDT 02/13/08

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BORING NUMBER SB-51-SW

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 06/09/06 **COMPLETED** 06/09/06
GROUND ELEVATION 422.771 ft MSL **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	
0					
	MC 1	71		FILL, gravel, slag, reddish-brown, coarse, dry	
				1.0 SLAG, black, moist, dark brown-yellow silty clay fragments	421.8
				2.0 SILTY CLAY, gray, black and yellow mottled silty clay	420.8
				brick debris	
				2.5 SILTY CLAY, dark gray, yellow mottled silty clay, trace black slag, moist	420.3
				4.0	418.8
5				SLAG, black, medium coarse, mixed with gray silty clay, wet	
				4.5 CLAYEY SILT, gray, moist	418.3
	MC 2	46		5.5 light brown, yellow-black mottled silty clay	417.3
				SILTY CLAY, white, mixed with gravel stained yellow	
				6.0 CLAYEY SILT, dark gray, dry, crumbles easily	416.8
				7.0 lost 1.5 feet down hole	415.8
				8.0	414.8
				Bottom of hole at 8.0 feet.	

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BORING NUMBER SB-52-NE

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 06/13/06 **COMPLETED** 06/13/06
GROUND ELEVATION 420.992 ft MSL **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	
0					
	MC 1	67		0.1 ROTOMILL, wet	420.9
				SLAG, brown to black, medium grain, moist	
				2.2 wood fragments, wet	418.8
				SANDY SILT, medium gray, brown mottled sandy silt, low plasticity, wet, trace slag	
				3.5 CLAYEY SILT, gray, brown mottley clayey silt, soft to medium stiff, moist	417.5
5				some oxidation, medium stiff	
	MC 2	81		6.0 SANDY SILT, brown, plastic, moist	415.0
				7.0 SAND, brown, fine, well sorted, moist	414.0
				8.0	413.0
				Bottom of hole at 8.0 feet.	

GENERAL BH / TP / WELL OAZ LOGS.GPJ GINT US.GDT 02/13/08

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BORING NUMBER SB-52-SE

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 06/12/06 **COMPLETED** 06/12/06
GROUND ELEVATION 421.712 ft MSL **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	
0					
	MC 1	60		0.5 ROTOMILL, dry	421.2
				SLAG, black, medium, dry	
				1.0 SAND, brown, medium grain, well sorted, moist	420.7
				1.5 SLAG, black, dark red brick chunks, construction debris, covered with gray silty material, wet	420.2
				4.0	417.7
5				SILT, gray, brown mottled silt, moist	
	MC 2	81		light gray mottled silt	
				5.8 small, speckeled white crystals	416.0
				SILTY CLAY, dark gray, brown mottled sand, streaks of white, powder-like crystals, plastic, stiff	
				clusters of white crystals, stiff, dry	
				8.0	413.7
				Bottom of hole at 8.0 feet.	

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BORING NUMBER SB-52-SW

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 06/12/06 **COMPLETED** 06/12/06
GROUND ELEVATION 423.084 ft MSL **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	
0					
	MC 1	69		ROTOMILL, crushed asphalt, gravel, dry	
				construction debris, bricks	
				SAND, foundary sand, light brown, well sorted, sub rounded, medium grain, dry	421.1
2.0					
				SLAG, black, coarse, trace yellow pasty substance covering some gravel-size slag, some purple stained slag, moist	
4.0					419.1
5				SLAG, black, medium grain, moist, end at 4.5 feet	
4.5				CLAYEY SILT, brown, sandy, moist	418.6
	MC 2	65			
6.0					417.1
				SILTY CLAY, medium gray, black mottled silty clay, some oxidation	
				dark gray	
8.0					415.1
				Bottom of hole at 8.0 feet.	

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BORING NUMBER SB-53-NE

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 06/08/06 **COMPLETED** 06/08/06
GROUND ELEVATION 420.804 ft MSL **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	
0						
	MC 1	100			0.5 GRAVEL, light gray, dry	420.3
					SLAG, ground medium to coarse, dark brown to black, dry	
					1.0 CONCRETE, small, white debris fragments	419.8
					1.5 SLAG, same as above	419.3
					CONCRETE, crushed, white, some cobble-size pieces, dry	
					2.0 SLAG-like material, medium to coarse, wet, covered with medium to light gray gray silty, wet material	418.8
					2.5	418.3
5					4.5 CLAYEY SILT, medium gray, light gray-green clayey silt, very moist	416.3
	MC 2	100			with black mottling	
					6.0	414.8
					SLAG-like material, gravel, wet with light gray, silty material	
			COLLAPSE, sleeve is stuck in spoon. No sample. Relocate borehole approximately 3.0 feet west.		GRAVEL, stained with yellow, orange-yellow silt sludge, strong, sweet odor	
					8.0	412.8
					Bottom of hole at 8.0 feet.	

GENERAL BH / TP / WELL OAZ LOGS.GPJ GINT US.GDT 07/30/08

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BORING NUMBER SB-53-NE-A

CLIENT Blue Tee Corp. **PROJECT NAME** Old American Zinc Plant Site

PROJECT NUMBER C1727 **PROJECT LOCATION** Fairmont City, IL

DATE STARTED 06/08/06 **COMPLETED** 06/08/06 **GROUND ELEVATION** 420.804 ft MSL **HOLE SIZE** 2"

DRILLING CONTRACTOR GeoServe, Inc. **GROUND WATER LEVELS:**

DRILLING METHOD Direct Push **AT TIME OF DRILLING** ---

LOGGED BY M. Gotto **CHECKED BY** P. Thomson **AT END OF DRILLING** ---

NOTES Sampler: 4' Macro Core **AFTER DRILLING** ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	
0					
	MC 1	71		FILL, same as SB-53-NE from 0 to 4 feet bgs	
5	MC 2	100		SLAG, black, wet	
				6.0	414.8
				SILT, medium gray, moist	
				7.0	413.8
				CLAYEY SILT, medium gray, moist, mottled light green silty clay veining	
				7.5	413.3
				CLAY, gray, plastic, soft	
				8.0	412.8
				Bottom of hole at 8.0 feet.	

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BORING NUMBER SB-53-NW

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 06/08/06 **COMPLETED** 06/08/06
GROUND ELEVATION 422.391 ft MSL **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	
0					
	MC 1	65		SLAG, black, medium to coarse, dry, brick debris, gravel	
				silty-sludge, tannish-yellow, soft	
				SLAG black	
				4.5	417.9
5	MC 2	100		SILTY CLAY, dark gray, plastic, stiff, dry	
				mottled, black silty clay	
				brown, trace rust colored silty clay mottling, stiff	
				7.0	415.4
				SANDY SILT, brown, moist	
				8.0	414.4
				Bottom of hole at 8.0 feet.	

GENERAL BH / TP / WELL OAZ LOGS.GPJ GINT US.GDT 02/13/08

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BORING NUMBER SB-53-SW

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 06/08/06 **COMPLETED** 06/08/06
GROUND ELEVATION 421.79 ft MSL **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION
0	MC 1	69		SLAG, black fine to medium, dry Silt with slag, moist, dark gray, wood, strong creosote odor
4.0				417.8
4.5				SAND, brown, medium, moist, strong creosote odor 417.3
5	MC 2	100		CLAYEY SILT, black, trace yellow-green powder, soft, moist dark gray, clayey, dry, medium stiff, specs of yellow silty clay
8.0				413.8
				Bottom of hole at 8.0 feet.

GENERAL BH / TP / WELL OAZ LOGS.GPJ GINT US.GDT 02/13/08

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BORING NUMBER SB-54-NE

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 06/08/06 **COMPLETED** 06/08/06
GROUND ELEVATION 421.049 ft MSL **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	
0					
				0.5 GRAVEL, pulverized asphalt, dark gray, dry	420.5
				SLAG, black, medium grain	
	MC 1	69		2.2 piece of wood, brick debris, wet	418.8
				3.3 SILTY CLAY, brown-orange, plastic, soft	417.8
				trace slag and debris	
				3.5 chunks of concrete, white	417.5
5				5.0 SLAG, black, moist	416.0
	MC 2	100		wood, wet	
				SILT, dark gray, trace yellow sludge-like material, moist	
				7.0 dark gray, dry	414.0
				light brownish-yellow	
				8.0 SANDY SILTY CLAY, yellow-brown, plastic, dry	413.0

Bottom of hole at 8.0 feet.

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BORING NUMBER SB-54-NW

CLIENT Blue Tee Corp. **PROJECT NAME** Old American Zinc Plant Site

PROJECT NUMBER C1727 **PROJECT LOCATION** Fairmont City, IL

DATE STARTED 06/08/06 **COMPLETED** 06/08/06 **GROUND ELEVATION** 421.355 ft MSL **HOLE SIZE** 2"

DRILLING CONTRACTOR GeoServe, Inc. **GROUND WATER LEVELS:**

DRILLING METHOD Direct Push **AT TIME OF DRILLING** ---

LOGGED BY M. Gotto **CHECKED BY** P. Thomson **AT END OF DRILLING** ---

NOTES Sampler: 4' Macro Core **AFTER DRILLING** ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	
0					
	MC 1	48		0.5 CONCRETE	420.9
				SLAG, black, fine	
				coarse	
				orange-red, moist, mixed with brick debris	
				gray, coarse, wet	
5	MC 2	31		6.0	415.4
				SILTY CLAY, dark yellow mottled black	
				7.0	414.4
				CLAYEY SILT, black, soft to medium stiff, trace yellow silt veining, dry	
				9.0	412.4
10	MC 3	100		SILTY CLAY, dark gray, medium stiff, plastic, cohesive, moist	
				stiff	
				mottled brown, trace fine silty clay, black	
				medium gray, brown mottling, moist, medium stiff	
	MC 4	100		very soft, pasty, wet	
15				15.0	406.4
				SANDY SILTY CLAY, gray, brown, mottling, moist	
				15.5	405.9
				SANDY SILT, brown, moist, small black specs of silty material	
				16.0 Bottom of hole at 16.0 feet.	405.4

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BORING NUMBER SB-55-N

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 06/08/06 **COMPLETED** 06/08/06
GROUND ELEVATION 420.995 ft MSL **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	
0				SLAG, gravel, debris-fill, construction debris	
				1.0	420.0
	MC 1	56		SILTY CLAY, gray-brown, soft, trace slag, debris pieces throughout, moist	
5				trace brick debris, cobble size	
	MC 2	67		brown, trace black silty slag, brick debris	
				6.0	415.0
				SILTY CLAY, dark gray, medium stiff, plastic, trace black silt, dry	
				8.0	413.0
				Bottom of hole at 8.0 feet.	

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BORING NUMBER SB-57-NE

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 06/06/06 **COMPLETED** 06/06/06
GROUND ELEVATION 418.068 ft MSL **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	
0					
	MC 1	100		0.5 GRASS, topsoil, trace roots, dry	417.6
				SILT, dark brown, mottled, clayey, stiff, dry	
				gray, cohesive	
				4.0	414.1
				Bottom of hole at 4.0 feet.	

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BORING NUMBER SB-58-SW

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 06/05/06 **COMPLETED** 06/05/06
GROUND ELEVATION 419.562 ft MSL **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	
0					
	MC 1	79		FILL, slag, crushed asphalt slag, crushed, brown-black, dry	
1.5				black, moist at 10-inches	418.1
2.0				SILT, dark gray, slightly moist	417.6
				SILTY CLAY, gray, cohesive, soft light gray, medium stiff to stiff, cohesive	
4.0				very stiff, dry	415.6

Bottom of hole at 4.0 feet.

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BORING NUMBER SB-59-NE

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 06/02/06 **COMPLETED** 06/02/06
GROUND ELEVATION 420.103 ft MSL **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	
0					
0.5				FILL, gravel, crushed asphalt, rotomill, black, dry	419.6
1.0	MC 1	69		GRAVEL, ash, medium to fine SLAG, black, moist, trace white ash, brick debris slag mixed with silt, brown to dark gray, moist	419.1
3.5				CLAYEY SILT, dark gray, plastic, dry	416.6
4.0				Bottom of hole at 4.0 feet.	416.1

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BORING NUMBER SB-60-NE

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 06/02/06 **COMPLETED** 06/02/06
GROUND ELEVATION 421.729 ft MSL **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	
0					
	MC 1	73		0.6 **ROTOMILL**, gravel, crushed asphalt, dry	421.1
				SLAG, black, medium coarse, dry. Brick debris between 1 and 2.0 feet	
				4.0	417.7
5				**SILT**, brown, slag fragments, moist	
	MC 2	100		dark gray, trace fine slag, plastic, very moist	
				6.0	415.7
				gray mottled brown, plastic, cohesive, moist	
				8.0	413.7
				Bottom of hole at 8.0 feet.	

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BORING NUMBER SB-61-NE

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 06/05/06 **COMPLETED** 06/05/06
GROUND ELEVATION 419.385 ft MSL **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	
0	MC 1	52		BACKFILL, gravel, topsoil, brick debris, slag fragments, dry	
				2.5 rust-colored silt, cobble-size, black slag	416.9
				3.5 SILT, dark gray, light aqua blue specs (possible copper corosion?), soft, moist	415.9
5	MC 2	100		CLAYEY SILT, gray, brown mottled clayey silt, medium stiff, semi-moist, cohesive	
				8.0	411.4
				Bottom of hole at 8.0 feet.	

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BORING NUMBER SB-62-NE

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 06/05/06 **COMPLETED** 06/05/06
GROUND ELEVATION 418.461 ft MSL **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	
0					
				0.5 FILL, gravel, topsoil, brick debris	418.0
				1.0 SLAG, black, medium coarse, dry	417.5
	MC 1	48		CLAYEY SILT, dark gray, moist, cohesive, soft	
5					
	MC 2	100		gray, medium stiff, mottled, small, white crystal specs, fine grain trace yellow ash material some oxidation, slightly moist dark gray, medium stiff to stiff, slightly moist	
				8.0	410.5

Bottom of hole at 8.0 feet.

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BORING NUMBER SB-63-SE

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 06/05/06 **COMPLETED** 06/05/06
GROUND ELEVATION 418.23 ft MSL **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	
0				SLAG, dark brown, ground coarse, dry	
1.5	MC 1	69		red-brown, moist	416.7
				SILT, gray, cohesive, trace roots	
				mottled, medium stiff	
3.5					414.7
				CLAYEY SILT, gray, soft, plastic	
4.0					414.2
				Bottom of hole at 4.0 feet.	

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BORING NUMBER SB-64-NW

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 06/05/06 **COMPLETED** 06/05/06
GROUND ELEVATION 419.181 ft MSL **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	
0					
	MC 1	67		0.5 TOPSOIL, mixed with slag, black, fine, dry	418.7
				SLAG, dark brown-black, ground	
				brick debris	
				fine	
				3.5 wet, silty	415.7
				CLAYEY SILT, dark gray, medium stiff, cohesive, moist	
5				gray, mottled, soft, plastic, brownish-orange streaks (rust-like) veining	
	MC 2	100			
				medium stiff, dry	
				8.0	411.2
				Bottom of hole at 8.0 feet.	

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BORING NUMBER SB-65-NE

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 06/06/06 **COMPLETED** 06/06/06
GROUND ELEVATION 418.74 ft MSL **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	
0					
	MC 1	100		0.5 TOPSOIL, grass, black, trace roots, dry	418.2
				CLAYEY SILT, dark gray, stiff, dry	
				very stiff	
				4.0	414.7
				Bottom of hole at 4.0 feet.	

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BORING NUMBER SB-67-NE

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 06/02/06 **COMPLETED** 06/02/06
GROUND ELEVATION 419.093 ft MSL **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	
0					
	MC 1	81		0.2 ASPHALT	418.9
				FILL, gravel, crushed stone	
				0.5 SILT, brown, gravel mix, dry	418.6
				0.8 SANDY SILT, light brown	418.3
				moist	
				3.5 light gray, trace fine black slag, moist to very moist	415.6
				CLAYEY SILT, dark gray, trace roots, moist	
5					
	MC 2	100		6.0	413.1
				CLAY, gray, stiff, moist	
				8.0	411.1

Bottom of hole at 8.0 feet.

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BORING NUMBER SB-67-SE-A

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 06/14/06 **COMPLETED** 06/14/06
GROUND ELEVATION 418.777 ft MSL **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	
0					
	MC 1	73		0.5 ASPHALT, gravel	418.3
				CLAYEY SILT, gray, moist, some trace gravel, slag	
				1.0 GRAVEL, crushed, fine, silt-like	417.8
				SANDY SILT, gray, black mottled, sandy silt, wet	
				1.5 black	417.3
				2.5 DEBRIS, bricks	416.3
				3.0 SILTY CLAY, dark gray, some oxidation mottled, medium stiff, dry	415.8
5				4.0 CLAY, gray, brown mottled clay, some oxidation, medium stiff	414.8
	MC 2	100		brown, gray mottled clay, stiff	
				8.5	410.3
				SILT, brown, low plasticity, wet	
10	MC 3	54		10.5	408.3
				CLAYEY SILT, sandy, brown, medium stiff	
				12.0	406.8
				soft, sandy, very moist	
				Bottom of hole at 12.0 feet.	

GENERAL BH / TP / WELL OAZ LOGS.GPJ GINT US.GDT 02/13/08

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BORING NUMBER SB-67-SE-B

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 06/14/06 **COMPLETED** 06/14/06
GROUND ELEVATION 418.592 ft MSL **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	
0					
	MC 1	73		0.5 FILL, gravel, topsoil, asphalt, dry	418.1
				SANDY SILT, brown, organic	
				1.0 SLAG, coarse, mixed with clayey silt, brown, dark gray mottled sandy silt	417.6
				1.5 CONCRETE, crushed	417.1
				CLAYEY SILT, black, plastic, dry	
				2.0 medium gray, dark gray mottled clayey silt	416.6
5	MC 2	100		gray, some oxidation, mottled clayey silt, soft to medium stiff	
				brown	
				SANDY SILT, plastic, soft	
				brown, gray mottled sandy silt, soft, moist	
				9.5 some black mottled sandy silt	409.1
10	MC 3	65		SILTY CLAY, brown, dark gray mottled silty clay, soft moist	
				12.0	406.6

Bottom of hole at 12.0 feet.

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BORING NUMBER SB-67-SE-C

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 06/14/06 **COMPLETED** 06/14/06
GROUND ELEVATION 418.58 ft MSL **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	
0					
	MC 1	56		0.5 TOPSOIL, asphalt, gravel fill, dry	418.1
				CLAYEY SILT, gray, dry	
				1.5 brown mottled clayey silt	417.1
				2.0 SANDY SILT, brown, black mottled	416.6
				3.0 SAND, brown, medium grain, well sorted	415.6
				dark gray, brown mottled clayey silt, soft	
5	MC 2	58		SAND, brown, fine to medium grain, well sorted, rounded, moist	
				8.0	410.6
	MC 3	100		SILT, brown, wet, some slag-like pieces, black fine	
				9.0	409.6
10				CLAYEY SILT, brown, some oxidation, black-dark gray streaks of clayey silt, moist	
				10.0	408.6
				SANDY SILT, clayey, light gray mottled sandy-clayey silt, plastic, moist	
				11.0	407.6
				SILTY CLAY, brown, plastic, soft, moist	
				12.0	406.6
				Bottom of hole at 12.0 feet.	

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BORING NUMBER SB-68-NE

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 06/02/06 **COMPLETED** 06/02/06
GROUND ELEVATION 417.57 ft MSL **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	
0					
				FILL, debris, gravel, slag, white ash	
1.0					416.6
	MC 1	100		SILT, dark gray, trace roots, plastic	
				gray, mottled	
				brown, trace roots, organics	
4.0					413.6
				Bottom of hole at 4.0 feet.	

GENERAL BH / TP / WELL OAZ LOGS.GPJ GINT US.GDT 02/13/08

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BORING NUMBER SB-69-NE

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 06/05/06 **COMPLETED** 06/05/06
GROUND ELEVATION 416.179 ft MSL **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	
0					
	MC 1	77		0.5 TOPSOIL, black, trace roots, dry	415.7
				SILT, black, plastic, dry	
				3.0	413.2
				SILTY CLAY, dark gray, soft, cohesive	
				4.0	412.2
				Bottom of hole at 4.0 feet.	

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BORING NUMBER SB-70-SE

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 06/05/06 **COMPLETED** 06/05/06
GROUND ELEVATION 418.821 ft MSL **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	
0					
0.5	MC 1	100		ASPHALT, dry	418.3
1.0				SANDY GRAVEL, crushed, brown, medium to fine, subrounded, dry	417.8
2.5				SILT, gray, cohesive trace slag, black, fine	416.3
4.0				CLAYEY SILT, plastic, cohesive, trace roost, medium stiff, dry rust/oxidation streaks (veining) dark orange-black, dry, soft	414.8

Bottom of hole at 4.0 feet.

GENERAL BH / TP / WELL OAZ LOGS.GPJ GINT US.GDT 02/13/08

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BORING NUMBER SB-71-NE

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 06/05/06 **COMPLETED** 06/05/06
GROUND ELEVATION 419.28 ft MSL **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	
0					
0.5	MC 1	100		ASPHALT, slag, black, dry	418.8
1.0				STONE/CONCRETE, crushed, dry	418.3
2.5				SAND, brown, fine, dry gray, trace fine black slag	416.8
3.0				SILT, dark gray, trace roots, dry; end of trace fine black slag	416.3
4.0				CLAYEY SILT, dark gray, medium stiff, cohesive, dry	415.3
				Bottom of hole at 4.0 feet.	

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BORING NUMBER SB-73-N

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 06/02/06 **COMPLETED** 06/02/06
GROUND ELEVATION 417.517 ft MSL **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	
0					
0.5	MC 1	77		ASPHALT	417.0
				SOIL, slag fragments, gravel	
1.0				SLAG	416.5
2.0				SANDY SILT, brown, dry	415.5
				gray, moist	
4.0				dark gray to black, moist, fine slag-like material, trace roots, plastic, cohesive	413.5
				Bottom of hole at 4.0 feet.	

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BORING NUMBER SB-74-N

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 06/05/06 **COMPLETED** 06/05/06
GROUND ELEVATION 417.278 ft MSL **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION
0				
	MC 1	100		FILL, gravel, asphalt, trace roots, dry
1.0				416.3
				CLAYEY SILT, dark gray, stiff, plastic, trace roots, cohesive, dry
4.0				413.3
				Bottom of hole at 4.0 feet.

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BORING NUMBER DP-01A

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 01/14/08 **COMPLETED** 01/15/08
GROUND ELEVATION 419.01 ft MSL **HOLE SIZE** 4"
DRILLING CONTRACTOR Roberts Drilling
GROUND WATER LEVELS:
DRILLING METHOD HSA/Mud Rotary
AT TIME OF DRILLING ---
LOGGED BY P. Thomson **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES HSA to 25 feet bgs. Mud rotary with tri-cone bit to 75 feet bgs.
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	BLOW COUNTS (N VALUE)	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION
0						0.4 **TOPSOIL,** black organic ~ 4 inches 418.6
						1.4 5YR 2-5/1, **SILTY CLAY,** ~ 1 foot, stiff, slightly moist, cohesive 417.6
	SS 1	75				10YR 5/4 **CLAYEY SILT,** soft, cohesive, slightly moist
5						
						6.0 413.0
						CLAYEY SAND, soft, dry, silt seam ~ 4 inches
						6.4 10YR 5/2 **CLAYEY SILT,** some sand, cohesive, slightly moist to 10 feet 412.6
	SS 2	88				
10						10.0 409.0
						10YR 6/3 **SILTY SAND**
						grading to **SILT**, moist, soft
						12.0 clay content increasing with depth 407.0
	SS 3	100				**CLAYEY SAND** at 12.5 feet, saturated at bottom, striations of iron, becomes sandy clay at very bottom, dry, water in toe (shoe) of spoon
15						15.0 404.0
						10YR 6/3 **CLAYEY SAND,** saturated, cohesive ~ 2.5 feet
	SS 4	80				becomes **CLAYEY SILT,** moist, iron striations with clay/silt seams, moist
20						20.0 399.0
						10YR 5/4 **SILTY SAND,** fine sand with silt, saturated
	SS 5	40				
						24.0 395.0
25						24.2 2-inch **SANDY CLAY** seam, wet 394.8
				Attempted Shelby at 25 ft bgs. No Recovery. Blow in after shelby retrieval. No sample - augured to 30 ft bgs. Blow in at 30 ft bgs. Lost Shoe. 01/15/2008 - Moved		25.0 **CLAYEY SAND,** saturated to bottom 394.0
	SS 6	46	20			10YR 5/3, **SAND,** fine, well sorted, saturated, dense
						27.0 392.0
						10YR 4/4, **SAND** ~ 10 inches, fine to medium, trace pebbles, saturated
						grading to 10YR 5/1, **CLAYEY SAND**
						29.0 390.0
30	SS 7	33				**CLAYEY SILT** in toe of sample

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BORING NUMBER DP-01A

CLIENT Blue Tee Corp. **PROJECT NAME** Old American Zinc Plant Site

PROJECT NUMBER C1727 **PROJECT LOCATION** Fairmont City, IL

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	BLOW COUNTS (N VALUE)	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION
30				boring approximately 5 ft, designate DB-01A. Switched to mud rotary drilling method. Blind drill to 25 ft bgs.		30.5 **SAND,** fine 388.5
	SS 8	44	24			grading to 10YR 5/2 **CLAYEY SAND**
						31.0 10YR 5/3 **SILTY SAND,** fine, with pebbles, saturated 388.0
						CLAYEY SAND
	SS 9	35	21			33.0 grading to 10YR 5/2 **SILTY SAND,** fine, well sorted, moderately cohesive, saturated to 33 feet 386.0
35						10YR 4/2 **SAND,** fine, dense, saturated, moderately cohesive
	SS 10	31	31			
						grading to **SILTY SAND,** fine, moderately cohesive, medium dense
	SS 11	29	31			37.0 10YR 2/2 **SANDY SILT,** seam of black / very dark brown ~ 1/4 inch 382.0
						SILT, gray in bottom two inches, hard
						10YR 4/1 **SAND,** fine to medium, some pebbles, well rounded, saturated,
	SS 12	29	28			39.0 medium dense 380.0
40						10YR 5/1 **SAND,** fine to medium, trace of small, well rounded gravel, wet, medium dense
						41.0 378.0
	SS 13	23	28			10YR 5/1 **SILTY SAND,** fine to medium, moderately cohesive,
						43.0 376.0
	SS 14	31				10YR 5/1 **SILTY SAND,** fine, well sorted, saturated
45						44.5 374.5
	SS 15	35				**SILT,** 1/4 inch seam, very dark gray
						44.7 **SAND,** fine, trace pebbles, piece of gravel, saturated 374.3
						45.0 10YR 5/1 **SAND,** fine to medium, trace pebbles, well rounded, saturated, medium dense 374.0
	SS 16	25	24			
						dense
	SS 17	27	83			
50						
						50.7 black organic seam, wood fragments 368.3
	SS 18	32	22			51.0 10YR 2/1 **SILT,** in toe (shoe), "mud-like", saturated, cohesive 368.0
						10YR 5/1 **SAND,** fine to medium, trace well rounded pebbles and quartz, dense, saturated
	SS 19	29	34			
						54.5 364.5
55						**SILTY SAND** in toe
	SS 20	29	25			55.0 10YR 5/1 **SAND,** fine to medium, poorly sorted 364.0
						grading to medium to coarse with gravel, saturated, medium dense
	SS 21	32	22			58.0 361.0
						58.5 same as above with pebbles ~ 9 inches 360.5
	SS 22	25				59.0 10YR 4/1 **SILT,** saturated in toe ~ 3 inches 360.0
60						5Y 4/1 **SILT,** with fine sand, wet, cohesive, soft
	SS 23	29	29			
						same as above, slight laminations of dark grey, wet to 62 1/4 ft, cohesive
						62.4 356.6
						63.0 **SAND,** fine to coarse sand, poorly sorted, wet, pebbles, gravel, quartz 356.0
	SS 24	29	55			5Y 4/1 **CLAY,** pliable, medium dense, cohesive, moist

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BORING NUMBER DP-01A

CLIENT Blue Tee Corp.

PROJECT NAME Old American Zinc Plant Site

PROJECT NUMBER C1727

PROJECT LOCATION Fairmont City, IL

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	BLOW COUNTS (N VALUE)	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION
65						
	SS 25	50	9			grading to **CLAYEY SILT** in toe
	SS 26	50				5Y 4/1 **CLAY,** pliable, moist, cohesive
	SS 27	50		K = 5.33E-07 cm/s i = 12.14		
70			21			
	SS 28	50				
						73.0 grading to **CLAYEY SILT,** dense, wet, cohesive, with clay 346.0
	SS 29	23	22			5Y 5/1 **SANDY SILT** in toe, wet
						5Y 4/1 **SAND,** fine to coarse, sub gravel, well rounded pebbles, quartz
75						75.0 344.0
						Bottom of hole at 75.0 feet.

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BORING NUMBER DP-02

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 01/15/08 **COMPLETED** 01/16/08
GROUND ELEVATION 421.049 ft MSL **HOLE SIZE** 4"
DRILLING CONTRACTOR Roberts Drilling
GROUND WATER LEVELS:
DRILLING METHOD HSA/Mud Rotary
AT TIME OF DRILLING ---
LOGGED BY P. Thomson **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES HSA to 19 feet bgs. Mud rotary with tri-cone bit to 75 feet bgs.
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION
0					Blind drill to 4 feet (rubble)
	AU 1	0			
4.0					417.0
5					No recovery - rubble in area
	SS 2	0			
9.0					412.0
10					10YR 4/3 **SILTY CLAY,** cohesive, medium dense, moist at 12 feet
	SS 3	40			
15					some overlying rubble slough
	SS 4	50			10YR 4/3 **SILTY CLAY,** moist to very moist at toe, soft, cohesive
17.0					404.0
	SS 5	25			rubble slough
19.0					10YR 4/1 **SILTY CLAY,** stiff, cohesive, moist 402.0
20	SS 6	79			10YR 5/4, **SANDY SILT,** in toe, soft, moist
21.0					same as above ~ 3 inches 400.0
	SS 7	50			10YR 4/3 **SILTY SAND,** with some clay seams, wet medium dense, moderately cohesive
	SS 8	54			10YR 5/3 <<B>SAND, **fine, some silt, black, trace fine pebbles, well sorted, black laminations of silt**
25					**SANDY SILT,** dense, moderately cohesive, wet
25.0					396.0
	SS 9	42			10YR 5/3 **SAND,** fine to medium, trace pebbles, well rounded, wet
	SS 10	63			10YR 5/4 **SAND,** fine to medium, some silt, soft, wet
30	SS				

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BORING NUMBER DP-02

CLIENT Blue Tee Corp. **PROJECT NAME** Old American Zinc Plant Site

PROJECT NUMBER C1727 **PROJECT LOCATION** Fairmont City, IL

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION
30					
	11	50			31.0 Bottom six inches 10YR 5/2 **SILTY SAND,** medium dense, wet 390.0
	SS 12	69			10YR 4/1 **SANDY SILT** grading to **SILT,** dense, cohesive 33.0 388.0
	SS 13	100	K = 6.92E-07 cm/s i = 4.24		10YR 6/1 **CLAY,** soft, cohesive, pliable grading to **CLAYEY SILT** bottom six inches
35					
	SS 14	100			**CLAY** in toe 10YR 5/1 **CLAY,** pliable, cohesive, very moist, some silt 37.0 grading to **CLAYEY SILT** 384.0
	ST 1	100	PUSHED SHELBY TUBE Driller's remark: "sandy at bottom of Shelby"		**CLAY** in toe 39.0 **SHELBY TUBE** 382.0
40	SS 15	50	K = 8.11E-04 cm/s i = 3.09		10YR 5/1 **SAND,** fine to medium, trace pebbles, wet, some silt 41.0 380.0
	SS 16	67			10YR 5/1 **SANDY SILT,** fine, dense, wet **SILT** in toe 43.0 378.0
	SS 17	56			10YR 4/1 **SAND,** coarse, poorly sorted, medium dense, wet, pebbles, well rounded, quartz
45					
	SS 18	54			
	SS 19	50			47.3 **SILTY SAND** seam ~ 1 inch 373.7 **SAND,** fine, some silt 49.0 grading to medium sand, poorly sorted, quartz 372.0
50	SS 20	71			1 inch organic seam with trace wood 51.0 bottom three inches fine to medium sand, pebbles, some silt, moist 370.0
	SS 21	63			**SAND,** coarse sand and gravel grading to **SAND,** fine to medium, poorly sorted with pebbles, well rounded, dense 53.0 grades to **SANDY SILT** ~ 1 foot 368.0
	SS 22	63			grades to 10YR 5.1 **SILT**
55					55.0 2.5Y 4/1 **SILTY SAND,** very dense, moderately cohesive, wet 366.0
	SS 23	38			2.5Y 4/1 **SANDY SILT,** dense, wet 2.4 Y 4.1 **SILTY SAND,** soft, some pebbles, wet 57.0 364.0
	SS 24	58			2.5 Y 4.1 **SAND,** fine to medium, some silt ~ 1 foot 58.0 363.0
					Dark brown **CLAYEY SILT** seam 58.2 362.8
60	SS 25	58			59.0 362.0 grading to **SILTY SAND,** dense, wet, moderately cohesive 2.5Y 4/1 **SAND,** coarse, poorly sorted, quartz, pebbles, well rounded, medium dense, wet
	SS 26	25			
	SS	33			

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BORING NUMBER DP-02

CLIENT Blue Tee Corp. **PROJECT NAME** Old American Zinc Plant Site

PROJECT NUMBER C1727 **PROJECT LOCATION** Fairmont City, IL

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION
65	27				64.7 — 356.3
	SS 29	63			65.0 — organic wood, black and light tan with some silty grey sand ~ 3 inches — 356.0 2.5Y 4.1 **CLAYEY SILT,** cohesive, wet, soft, some well rounded pebbles ~ 4 inches 67.0 — 354.0
	SS 30				**SAND** with silt, well sorted, wet, cohesive black laminatios of wood with some silt, 2.5Y 4/1 69.0 — 352.0
70	SS 31	92			2.5Y 5/1 **SILTY CLAY,** medium dense, pliable, cohesive, wet, soft to medium stiff ~ 9 to 10 inches 69.9 — 351.1
	SS 31	46			2.5Y 4/1 **SAND,** fine, wet, dense grading to coarse with quartz 71.0 — 350.0 **CLAYEY SILT** in toe, wet, cohesive, black laminations 2.5Y 5/1 **SAND,** coarse, quartz, poorly sorted, well rounded, wet, cohesive, silty 73.0 — 348.0
75	SS 32	50			2.5Y 5/1 **CLAYEY SILT** seam ~ 1 inch, cohesive, soft at 71.5 feet **SAND,** coarse, poorsly sorted, pebbles and gravel, wet, quartz, well rounded 75.0 — 346.0

Bottom of hole at 75.0 feet.

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BORING NUMBER DP-03

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 01/16/08 **COMPLETED** 01/17/08
GROUND ELEVATION 420.25 ft MSL **HOLE SIZE** 4"
DRILLING CONTRACTOR Roberts Drilling
GROUND WATER LEVELS:
DRILLING METHOD HSA/Mud Rotary
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES HSA to 20 feet bgs. Mud rotary with tri-cone bit to 75 feet bgs.
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	BLOW COUNTS (N VALUE)	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION
0						BLIND DRILL to 20 ft bgs (location approximately 15 ft south of MW-05) auger cuttings consist of clays, silty clays, and silts. Refer to boring log MW-05 for lithology to 20 ft bgs.
20						20.0 — 400.3
	ST 1	63		K = 6.63E-05 cm/s i = 2.55		Pushed Shelby Tube ~ 15 inches of recovery
						22.0 — 398.3
	SS 2	54	22			10YR 5/2 **SILT,** dense, wet, cohesive, soft
25	SS 3	63	17			24.7 — 395.6
						26.0 — 394.3 grading to 10YR 4/1 **SANDY SILT,** wet, moderately cohesive, dense
	SS 4	42	32			2.5Y 4.1 **SAND,** fine, well sorted, dense, wet
30	SS 5	38	38			**SAND**, fine, quartz, well rounded in toe, wet, some silt

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BORING NUMBER DP-03

CLIENT Blue Tee Corp. **PROJECT NAME** Old American Zinc Plant Site

PROJECT NUMBER C1727 **PROJECT LOCATION** Fairmont City, IL

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	BLOW COUNTS (N VALUE)	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION
30	SS 6	50	24			2.5Y 5/1 **SAND,** medium to coarse, poorly sorted, sub angular, quartz
						grading to 2.5Y 5/1 **SAND,** fine, dense, wet, well sorted, rounded
						32.0 — 388.3
	SS 7	50	23			~ 3 inches of slough
						2.5Y 4/1 **SAND**, fine to medium, some quartz, sub angular, dense, wet, cohesive, some pebbles
35	SS 8	46	44			35.0 — 385.3
						~ 5 inches of black laminations, silty
						35.5 — 384.8
	SS 9	35	16			~ 7 inches 2.5Y 4/1 **SAND**, fine
						2.5Y 4/1 **SAND,** fine, dense, wet, well sorted, quartz, rounded
	SS 10	52	24			38.6 — black lamination seam, fine to medium sand, pebbles, sub angular — 381.7
40						2.5Y 4/1 **SAND,** fine, saturated, dense, trace silt
	SS 11	46	37			2.5Y 4.1 **SAND,** fine, dense, wet to moist
	SS 12	50	38			2.5Y 5/1 **SAND,** fine, dense, wet
45	SS 13	63	45			
	SS 14	67				
	SS 15	63	46			**SILTY SAND,** black, ~ 0.25 inch seam
50						2.5Y 4/1 **SAND,** fine, dense, wet
	SS 16	63	35			some 2.5 4/1 **SILTY SAND** in toe, ~ 2 inches, wet
	SS 17	58	54			2.5Y 5.1 **SAND,** fine, dense, wet
						53.0 — **SILTY SAND,** black, fine, ~ 5 inch seam — 367.3
						54.0 — black laminations mixed with fine sand, dense, wet — 366.3
55	SS 18	56	49			2.5Y 4/1 **SAND,** fine, dense, wet, some silt
	SS 19	50				black laminations bottom 6 inches
	SS 20	67	32			**SILTY CLAY,** medium dense, cohesive, plaible, some pebbles, well rounded, wet ~ 10 inches
60						60.0 — 360.3
	SS 21	71	38	Attempted to push Shelby Tube between 60 and 62 ft bgs. Driller's remarks: pushed approximately 8 to 10 inches, felt like sand, hard to push.		fine sand bottom 3 inches
						2.5Y 4/1 **SAND,** fine, dense, wet, some silt
						62.0 — 358.3
	SS 22	63	37			2.5Y 4/1 **SILT,** dense, wet, ~ 5 inches
						grading to fine **SAND,** some silt, dense, wet
						grading to coarse sand, well sorted, rounded, quartz

GENERAL BH / TP / WELL OAZ LOGS.GPJ GINT US.GDT 02/26/08

(Continued Next Page)

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BORING NUMBER DP-03

CLIENT Blue Tee Corp. **PROJECT NAME** Old American Zinc Plant Site

PROJECT NUMBER C1727 **PROJECT LOCATION** Fairmont City, IL

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	BLOW COUNTS (N VALUE)	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION
65	SS 23	50	32	Stopped - pushed split-spoon to log 60 to 62 ft bgs.		medium sand, well sorted, quartz, rounded *(continued)*
						65.5 — 354.8
						66.2 — 354.1
	SS 24	54				2.5Y 4/1 <B>>SILT, **sandy-silt, cohesive, wet, black laminations bottom 6 inches**
	SS 25	46				2YR 4/1 **SAND,** fine, dense, wet, medium, grading to poorly sorted, sub rounded
70						medium sand, trace coarse sand, dense, sub-rounded to rounded, quartz, wet
	SS 26	50	35			
	SS 27	58				
75	SS 28	46	38			medium to coarse, pebbles, sub-rounded, poorly sorted, quartz, sub-angular
						75.8 — 344.5
						SILTY SAND, fine, dense, wet in bottom inch, in toe
						76.0 — 344.3
						Bottom of hole at 76.0 feet.

GENERAL BH / TP / WELL OAZ LOGS.GPJ GINT US.GDT 02/26/08

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WELL NUMBER MW-01

CLIENT Blue Tee Corp. **PROJECT NAME** Old American Zinc Plant Site

PROJECT NUMBER C1727 **PROJECT LOCATION** Fairmont City, IL

DATE STARTED 06/19/06 **COMPLETED** 06/19/06 **GROUND ELEVATION** 416.512 ft MSL **HOLE SIZE** 2"

DRILLING CONTRACTOR GeoServe, Inc. **GROUND WATER LEVELS:**

DRILLING METHOD Direct Push **AT TIME OF DRILLING** 15.0 ft / Elev 401.5 ft

LOGGED BY M. Gotto **CHECKED BY** P. Thomson **AT END OF DRILLING** ---

NOTES Sampler: 4' Macro Core; well installed with hollow-stem auger on 6/29/2006 **AFTER DRILLING** 17.9 ft / Elev 398.6 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0				0.1 **TOPSOIL**, grass — 416.4	Concrete pad
	MC 1	91		**SILTY CLAY**, black, stiff, trace roots, plastic, dry gray, some oxidation dark gray mottled silty clay, medium stiff bottom 2.0-inches soft	Schedule 40 PVC
5	MC 2	100		gray, soft, plastic, light brown mottled silty clay, dry 6.0 — 410.5 **CLAY**, gray, brown mottled clay, stiff, some oxidaton	Bentonite pellets
				9.0 — 407.5	
10	MC 3	81		**SANDY CLAY**, brown, gray mottled sandy clay, dry 10.0 — 406.5 **CLAY**, brown, gray mottled clay, soft to medium stiff, plastic, dry some dark gray staining, stiff	Quartz filter sand (NSF)
	MC 4	73		12.5 brown, soft, light gray mottled clay, moist — 404.0 **SILTY SAND**, brown, moist	
15				15.0 ▽ — 401.5 **SAND**, brown, fine, moist, saturation begins around 15.0 ft 16.0 — 400.5 Bottom of hole at 16.0 feet.	Schedule 40 Slotted PVC, 0.010-inch slots

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WELL NUMBER MW-02

CLIENT Blue Tee Corp. **PROJECT NAME** Old American Zinc Plant Site

PROJECT NUMBER C1727 **PROJECT LOCATION** Fairmont City, IL

DATE STARTED 06/15/06 **COMPLETED** 06/15/06 **GROUND ELEVATION** 418.582 ft MSL **HOLE SIZE** 2"

DRILLING CONTRACTOR GeoServe, Inc. **GROUND WATER LEVELS:**

DRILLING METHOD Direct Push ▽ **AT TIME OF DRILLING** 14.5 ft / Elev 404.1 ft

LOGGED BY M. Gotto **CHECKED BY** P. Thomson **AT END OF DRILLING** ---

NOTES Sampler: 4' Macro Core; well installed with hollow-stem auger on 6/15/2006 ▽ **AFTER DRILLING** 19.1 ft / Elev 399.5 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0	MC 1	69	K = 8.01E-07 cm/s i = 25.5		0.2 **TOPSOIL**, trace roots, dry — 418.4 **CLAYEY SILT**, black, plastic, dry brown, dark brown mottled clayey silt, dry 3.0 — 415.6 **SANDY SILT**, brown, fine, dry	Concrete pad
5	MC 2	81			5.0 — 413.6 **SILTY SAND**, brown, dry very moist at 7.5 ft	Schedule 40 PVC Bentonite pellets
10	MC 3	65			10.0 — 408.6 **SAND**, brown, fine, well sorted some oxidation, wet	Quartz filter sand (NSF)
15	MC 4	100			13.0 — 405.6 **SILTY SAND**, brown, fine, wet ▽ saturated between 14.0 and 15.0 ft 15.5 — 403.1 **SAND**, brown, fine, well sorted 16.0 — 402.6 Bottom of hole at 16.0 feet.	Schedule 40 Slotted PVC, 0.010-inch slots

GENERAL BH / TP / WELL OAZ LOGS.GPJ GINT US.GDT 02/26/08

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WELL NUMBER MW-03

CLIENT Blue Tee Corp. **PROJECT NAME** Old American Zinc Plant Site

PROJECT NUMBER C1727 **PROJECT LOCATION** Fairmont City, IL

DATE STARTED 06/15/06 **COMPLETED** 06/15/06 **GROUND ELEVATION** 419.456 ft MSL **HOLE SIZE** 2"

DRILLING CONTRACTOR GeoServe, Inc. **GROUND WATER LEVELS:**

DRILLING METHOD Direct Push ▽ **AT TIME OF DRILLING** 15.0 ft / Elev 404.5 ft

LOGGED BY M. Gotto **CHECKED BY** P. Thomson **AT END OF DRILLING** ---

NOTES Sampler: 4' Macro Core; well installed with hollow-stem auger on 6/15/2006 ▽ **AFTER DRILLING** 10.8 ft / Elev 408.7 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0	MC 1	60	K = 6.18E-06 cm/s i = 16.0		**SLAG**, black, fine, dry mixed with fill and brick debris coarse, oxidized	Concrete pad
4.5					wet	415.0
5	MC 2	63			**SILT**, dark gray, plastic, moist	Schedule 40 PVC
6.0					**SILTY CLAY**, gray, medium stiff	413.5
					brown mottled silty clay, stiff gray to light gray mottled silty clay, medium stiff, plastic	Bentonite pellets
10	MC 3	78			brown mottled silty clay, cohesive, stiff	
10.5					▽ **SANDY SILT**, brown, very moist, light gray mottled sandy silt, some oxidation	409.0
					brown, slightly wet light gray, brown mottled sandy silt, wet	Quarz filter sand (NSF)
13.0					**SILTY SAND**, light brown, wet	406.5
15	MC 4	88			brown, fine, saturated ▽ light gray, brown mottled silty sand, moist, some oxidation	Schedule 40 Slotted PVC, 0.010-inch slots
16.0					Bottom of hole at 16.0 feet.	403.5

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WELL NUMBER MW-04

CLIENT Blue Tee Corp. **PROJECT NAME** Old American Zinc Plant Site

PROJECT NUMBER C1727 **PROJECT LOCATION** Fairmont City, IL

DATE STARTED 06/15/06 **COMPLETED** 06/15/06 **GROUND ELEVATION** 418.196 ft MSL **HOLE SIZE** 2"

DRILLING CONTRACTOR GeoServe, Inc. **GROUND WATER LEVELS:**

DRILLING METHOD Direct Push ▽ **AT TIME OF DRILLING** 13.0 ft / Elev 405.2 ft

LOGGED BY M. Gotto **CHECKED BY** P. Thomson **AT END OF DRILLING** ---

NOTES Sampler: 4' Macro Core; well installed with hollow-stem auger on 6/22/2006 ▽ **AFTER DRILLING** 18.2 ft / Elev 400.0 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0	MC 1	94	K = 1.41E-07 cm/s i = 19.2		0.5 **TOPSOIL**, black, trace roots and gravel, dry — 417.7 **SILT**, black, plastic, dry 1.0 **SLAG**, fine, oxidized — 417.2 1.2 **CLAYEY SILT**, dark gray, dry — 417.0 brown mottled clayey silt 3.0 **SILTY CLAY**, gray, brown mottled silty clay, medium stiff, dry — 415.2 black mottled silty clay 5.5 some oxidation — 412.7 **SILTY SAND**, gray, brown mottled silty sand, cohesive, moist 7.5 — 410.7 **CLAY**, gray, some oxidation, plastic, soft, some black specs, dry 9.0 — 409.2 **SILT**, brown, light gray mottled silt, moist 9.4 **SILTY CLAY**, light gray, medium stiff, brown mottled clay, plastic, cohesive — 408.8 11.5 — 406.7 **SILTY SAND**, brown, moist 12.5 — 405.7 ▽ saturated 13.0 **SAND**, slightly silty, brown, very moist — 405.2 16.0 olive gray, moist — 402.2 Bottom of hole at 16.0 feet.	Concrete pad Schedule 40 PVC Bentonite pellets Quarz filter sand (NSF) Schedule 40 Slotted PVC, 0.010-inch slots
5	MC 2	81				
10	MC 3	56				
15	MC 4	100				

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WELL NUMBER MW-05

CLIENT Blue Tee Corp. **PROJECT NAME** Old American Zinc Plant Site

PROJECT NUMBER C1727 **PROJECT LOCATION** Fairmont City, IL

DATE STARTED 06/15/06 **COMPLETED** 06/15/06 **GROUND ELEVATION** 420.327 ft MSL **HOLE SIZE** 2"

DRILLING CONTRACTOR GeoServe, Inc. **GROUND WATER LEVELS:**

DRILLING METHOD Direct Push ▽ **AT TIME OF DRILLING** 18.5 ft / Elev 401.8 ft

LOGGED BY M. Gotto **CHECKED BY** P. Thomson **AT END OF DRILLING** ---

NOTES Sampler: 4' Macro Core; well installed with hollow-stem auger on 6/22/06 ▽ **AFTER DRILLING** 22.6 ft / Elev 397.7 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0					0.5 **ASPHALT**, crushed, trace crushed white gravel, fine, dry — 419.8	Concrete pad
	MC 1	44			**SLAG**, black, fine to medium, wet	
					3.0 — 417.3	
					SILT, dark gray, moist	
					4.0 — 416.3	Schedule 40 PVC
5	MC 2	94			**SITLY CLAY**, dark gray, trace white powdery crystals, trace amounts of oxidation, plastic, soft	
					gray, slightly moist	
					trace roots	Bentonite pellets
					medium stiff, some oxidation, slightly moist	
					light gray, brown mottled clay, medium stiff, semi-moist, plastic, cohesive	
10	MC 3	100			brown, light gray mottled silty clay	
					11.0 — 409.3	
					CLAY, brown, light gray mottled clay, stiff, dry to slightly moist	
					13.0 — 407.3	
					SILT, brown, light gray mottled silt, plastic	
	MC 4	54	K = 4.35E-07 cm/s i = 19.9		13.5 **CLAY**, brown, light gray mottled clay, medium stiff, plastic, cohesive, dry — 406.8	
15					some oxidation	Quartz filter sand (NSF)
					15.5 stiff — 404.8	
					16.0 **SILTY CLAY**, brown, oxidation, dry — 404.3	
					16.5 **CLAY**, brown, light gray mottled clay, dry — 403.8	
	MC 5	100			**SILT**, brown, very moist	
					▽ wet	
					saturated between 18.0 and 19.0 ft	
20					20.0 — 400.3	
					Bottom of hole at 20.0 feet.	Schedule 40 Slotted PVC 0.010-inch slots

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WELL NUMBER MW-06

CLIENT Blue Tee Corp. **PROJECT NAME** Old American Zinc Plant Site

PROJECT NUMBER C1727 **PROJECT LOCATION** Fairmont City, IL

DATE STARTED 06/19/06 **COMPLETED** 06/19/06 **GROUND ELEVATION** 419.64 ft MSL **HOLE SIZE** 2"

DRILLING CONTRACTOR GeoServe, Inc. **GROUND WATER LEVELS:**

DRILLING METHOD Direct Push ▽ **AT TIME OF DRILLING** 17.0 ft / Elev 402.6 ft

LOGGED BY M. Gotto **CHECKED BY** P. Thomson **AT END OF DRILLING** ---

NOTES Sampler: 4' Macro Core; well installed with hollow-stem auger on 6/21/2006 ▽ **AFTER DRILLING** 22.4 ft / Elev 397.3 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION		WELL DIAGRAM
0						
	MC 1	85		0.5 **TOPSOIL**, grass with black soil, dry	419.1	Concrete pad
				SANDY SILT, black, organic, trace roots, plastic, dry		
				2.0	417.6	
				SILTY CLAY, dark brown, stiff, dry, medium gray mottled silty clay, dry		
				3.0	416.6	
				SANDY SILT, brown, medium stiff, dark gray mottled, sandy clay, dry		
				4.0	415.6	Schedule 40 PVC
5				**CLAY**, brown, gray mottled clay, stiff, dry		
				5.0	414.6	
	MC 2	60		**SANDY SILT**, brown, moist, some oxidation		
				6.0	413.6	
				CLAY, brown, medium stiff, dark brown streaks		Bentonite pellets
				8.0	411.6	
				soft, dry		
				SILTY SAND, brown, light gray mottled silty sand, moist		
				9.5 saturated	410.1	
10	MC 3	73		**CLAY**, brown, light gray mottled clay, fine black streaks, medium stiff		
				11.0 stiff	408.6	
				SAND, brown, fine, wet		
				12.0	407.6	
				CLAY, brown, light gray mottled clay, some oxidation, plastic, soft, moist		
				13.0	406.6	
	MC 4	83		**SILTY SAND**, brown, light gray mottled silty sand, some oxidation, moist		Quartz filter sand (NSF)
				14.0	405.6	
				CLAY, brown, light gray mottled clay, some oxidation, plastic, soft, moist		
15				15.0	404.6	
				SILTY SAND, brown, fine, pliable, very moist		
				light gray mottled silty sand, some oxidation, saturated at 17.0 ft		
				▽ brown, fine, wet, dark brown to black streaking, oxidation, wet		
	MC 5	88				
						Schedule 40 Slotted PVC, 0.010-inch slots
20				20.0	399.6	
				Bottom of hole at 20.0 feet.		
				▽		

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WELL NUMBER MW-07

CLIENT Blue Tee Corp. **PROJECT NAME** Old American Zinc Plant Site

PROJECT NUMBER C1727 **PROJECT LOCATION** Fairmont City, IL

DATE STARTED 06/19/06 **COMPLETED** 06/19/06 **GROUND ELEVATION** 419.833 ft MSL **HOLE SIZE** 2"

DRILLING CONTRACTOR GeoServe, Inc. **GROUND WATER LEVELS:**

DRILLING METHOD Direct Push ▽ **AT TIME OF DRILLING** 20.0 ft / Elev 399.8 ft

LOGGED BY M. Gotto **CHECKED BY** P. Thomson **AT END OF DRILLING** ---

NOTES Sampler: 4' Macro Core; well installed with hollow-stem auger on 6/21/2006 ▽ **AFTER DRILLING** 21.8 ft / Elev 398.0 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION		WELL DIAGRAM
0						
	MC 1	75		0.5 **TOPSOIL**, black, sandy, trace roots, dry	419.3	Concrete pad
				SILTY SAND, brown, plastic, dark brown mottled silty sand, dry		
				2.0	417.8	
				SAND, brown, fine, well sorted, moist		
				slightly moist		Schedule 40 PVC
5	MC 2	51				
				8.4	411.4	Bentonite pellets
				SILT, brown, fine, plastic, wet		
10	MC 3	81		10.0 **CLAY**, gray, medium stiff, oxidation mottled clay, dry	409.8	
				12.0	407.8	
				SANDY SILT, light brown, dark brown/oxidized mottled, wet		
	MC 4	88		14.0	405.8	
15				**CLAYEY SILT**, light gray, brown/oxidized mottled clayey silt		
				15.5 oxidized	404.3	Quartz filter sand (NSF)
				15.8 **SILTY CLAY**, gray, oxidized mottled silty clay, soft	404.0	
				SANDY SILT, gray, moist		
				16.0 **SILT**, gray, brown/oxidized mottled silt, wet	403.8	
	MC 5	81		18.0	401.8	
				SAND, brown, fine, well sorted, moist		
20				▽ saturated around 20.0 ft		
				traces of black sand between 20.0 and 21.0 ft		
	MC 6	100		▽		Schedule 40 Slotted PVC, 0.010-inch slots
				24.0	395.8	
				Bottom of hole at 24.0 feet.		

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WELL NUMBER P-01

CLIENT Blue Tee Corp. **PROJECT NAME** Old American Zinc Plant Site

PROJECT NUMBER C1727 **PROJECT LOCATION** Fairmont City, IL

DATE STARTED 06/19/06 **COMPLETED** 06/19/06 **GROUND ELEVATION** 421.02 ft MSL **HOLE SIZE** 2"

DRILLING CONTRACTOR GeoServe, Inc. **GROUND WATER LEVELS:**

DRILLING METHOD Direct Push ▽ **AT TIME OF DRILLING** 16.2 ft / Elev 404.8 ft

LOGGED BY M. Carlson **CHECKED BY** P. Thomson **AT END OF DRILLING** ---

NOTES Sampler: 4' Macro Core: well installed on 6/20/2006 ▼ **AFTER DRILLING** 21.4 ft / Elev 399.6 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0	MC 1	71		**SLAG**, black, well-graded, slightly moist, medium dense, non-plastic	Concrete pad
4.0				417.0	
5	MC 2	100		**CLAY**, dark gray, medium stiff, plastic, orange oxidation patterns, moist	Schedule 40 PVC
				stiff, oxidation patterns, slightly moist	Bentonite pellets
	MC 3	100		light brown	
9.7				411.3	
10				**SILTY CLAY**, light brown, medium stiff, plastic, oxidation, moist	
				soft, high plasticity, saturated	
				medium stiff, wet	Quartz filter sand (NSF)
15	MC 4	100		very soft, oxidation patterns, high plasticity, saturated	
				trace sands, saturated seem at 16.0 ft bgs	
16.0				405.0	
16.2				**SILTY/SANDY CLAY**, light brown, soft, low plasticity, wet 404.8	
	MC 5	100		**SANDY CLAY**, light brown, soft, oxidation patterns, plastic, wet	Schedule 40 Slotted PVC, 0.010-inch slots
20				20.0 401.0	
				Bottom of hole at 20.0 feet.	

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WELL NUMBER P-02

CLIENT Blue Tee Corp. **PROJECT NAME** Old American Zinc Plant Site

PROJECT NUMBER C1727 **PROJECT LOCATION** Fairmont City, IL

DATE STARTED 06/19/06 **COMPLETED** 06/19/06 **GROUND ELEVATION** 423.183 ft MSL **HOLE SIZE** 2"

DRILLING CONTRACTOR GeoServe, Inc. **GROUND WATER LEVELS:**

DRILLING METHOD Direct Push ▽ **AT TIME OF DRILLING** 20.4 ft / Elev 402.8 ft

LOGGED BY M. Gotto **CHECKED BY** P. Thomson **AT END OF DRILLING** ---

NOTES Sampler 4' Macro Core: well installed on 6/20/2006 ▼ **AFTER DRILLING** 24.8 ft / Elev 398.4 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0					
	MC 1	42		**SAND**, yellowish-orange, well graded, loose, dry 1.0 — 422.2 **SLAG**, black, light gray silt horizons at 1.2, 1.7, and 3.2 to 4.0 ft	Concrete pad
5	MC 2	75		mixture of silty clay, very soft, wet dark gray, medium stiff 6.0 — 417.2 **CLAY**, dark gray, medium stiff, plastic, moist	Schedule 40 PVC
10	MC 3	75		light gray, stiff, slightly moist some oxidation soft, moist 12.0 — 411.2	Bentonite pellets
15	MC 4	88		**SILTY CLAY**, light gray, soft, plastic, trace sand, saturated very soft, saturated, high plasticity	Quartz filter sand (NSF)
20	MC 5	92		soft, plastic very soft, high plasticity, oxidation patterns 20.0 — 403.2	
	MC 6	100		▽ **SANDY SILT**, yellowish-orange, poorly graded, dense sand, slightly moist loose sand, high plasticity, saturated 24.0 — 399.2 Bottom of hole at 24.0 feet. ▼	Schedule 40 Slotted PVC, 0.010-inch slots

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WELL NUMBER P-03

CLIENT Blue Tee Corp. **PROJECT NAME** Old American Zinc Plant Site

PROJECT NUMBER C1727 **PROJECT LOCATION** Fairmont City, IL

DATE STARTED 06/14/06 **COMPLETED** 06/14/06 **GROUND ELEVATION** 421.352 ft MSL **HOLE SIZE** 2"

DRILLING CONTRACTOR GeoServe, Inc. **GROUND WATER LEVELS:**

DRILLING METHOD Direct Push ▽ **AT TIME OF DRILLING** 20.0 ft / Elev 401.4 ft

LOGGED BY M. Gotto **CHECKED BY** P. Thomson **AT END OF DRILLING** ---

NOTES Sampler: 4' Macro Core; well installed on 6/20/2006 ▼ **AFTER DRILLING** 23.0 ft / Elev 398.4 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0					0.5 **ROTOMILL**, dry — 420.9	Concrete pad
	MC 1	52			**SLAG**, black, medium, some oxidation, dry	
					white pasty material, gray mottled pasty material, soft, moist	
					SLAG, yellow-black, coarse, traces of pasty material, moist	
					4.5 — 416.9	Schedule 40 PVC
5					**CLAYEY SILT**, dark gray, plastic, moist	
	MC 2	100			medium gray, dark gray mottled clayey silt, medium stiff	
					7.0 some white crystals, oxidation — 414.4	
					7.9 **CLAY**, gray, brown mottled clay, stiff, moist — 413.5	Bentonite pellets
					8.0 **SANDY CLAY**, gray, stiff, moist, bottom 1.0 inch — 413.4	
10	MC 3	81			**SILT**, gray, white speckled crystals, moist	
					10.0 wet — 411.4	
					SILTY CLAY, brown, gray mottled silty clay	
					11.0 — 410.4	
					SILT, gray, moist	
	MC 4	100			brown, some oxidation	
					gray mottled silt, plastic, moist	
15					16.0 — 405.4	Quartz filter sand (NSF)
	MC 5	100	K = 1.03E-05 cm/s i = 21.8		**SILTY CLAY**, gray, brown mottled silty clay, plastic, soft, dry	
20					20.0 ▽ — 401.4	
	MC 6	100			**SILT**, brown, gray mottled silt, some oxidation, saturated	Schedule 40 Slotted PVC, 0.010-inch slots
					▼	
					24.0 — 397.4	
					Bottom of hole at 24.0 feet.	

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BORING NUMBER OS-AT1-NA

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 03/27/07 **COMPLETED** 03/27/07
GROUND ELEVATION **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION
0				
	MC 1	71		0.3 **GRASS/TOPSOIL**, black, sandy/silty, fine, dry
				1.0 **FILL**, gravel mixed with slag-like material, coarse, sand, fine crushed gravel
				2.0 **SILT**, sandy, dark gray, dry
				SILTY CLAY, dark brown, plastic, moist
				4.0
				Bottom of hole at 4.0 feet.

GENERAL BH / TP / WELL OAZ LOGS.GPJ GINT US.GDT 04/01/08

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BORING NUMBER OS-AT1-NB

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 03/27/07 **COMPLETED** 03/27/07
GROUND ELEVATION **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION
0				
	MC 1	60		0.4 **GRASS/TOPSOIL** black, sandy silt
				FILL, gravel pieces, coarse, minor amounts of slag-like material
				0.6 **SILT**, dark brown, sandy, medium stiff, trace roots, mixed with minor slag-like material
				black mottled sandy silt
				sandy-silt, brown, plastic, slightly moist
				4.0 Bottom of hole at 4.0 feet.

ENTACT & Associates, LLC
1010 Executive Court, Suite 280
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Telephone: 630.986.2900
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BORING NUMBER OS-AT1-NC

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 03/27/07 **COMPLETED** 03/27/07
GROUND ELEVATION **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION
0				
	MC 1	94		0.4 **GRASS/TOPSOIL**, black, silty/sandy, trace amounts of gravel
				SLAG, black, fine mixed with brick debris
				0.8 **CLAYEY SILT**, dark gray, pliable, trace roots, dry
				black mottled silt, slightly sandy, dry
				4.0 **SANDY SILT**, dark brown, brown mottled sandy silt, dry
				Bottom of hole at 4.0 feet.

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BORING NUMBER OS-AT1-SA

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 03/27/07 **COMPLETED** 03/27/07
GROUND ELEVATION **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION
0				
	MC 1	100		0.2 **GRAVEL**, coarse, dry 1.0 **SLAG**, black, fine, dry **CLAYEY SILT**, dark gray, plastic, very dark brown mottled clayey silt, slightly moist 4.0

Bottom of hole at 4.0 feet.

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BORING NUMBER OS-AT1-SB

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 03/27/07 **COMPLETED** 03/27/07
GROUND ELEVATION **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION
0				
	MC 1	69		0.2 **GRASS/TOPSOIL**, black, mixed with silty clay
				GRAVEL, white
				0.3 **SLAG**, black, fine
				0.8 **SILT CLAY**, dark gray, medium stiff, slightly moist
				very dark brown with brown mottled silty clag, moist, plastic
				dark brown and gray mottled silty clay, moist, plastic
				4.0
				Bottom of hole at 4.0 feet.

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BORING NUMBER OS-AT1-SC

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 03/27/07 **COMPLETED** 03/27/07
GROUND ELEVATION **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION
0				
	MC 1	81		0.2 **GRASS/TOPSOIL, gray, silty, moist**
				GRAVEL, crushed, moist
				0.3 **SLAG**, black, silty, moist
				2.0 **SILTY CLAY**, very dark gray, reddish-brown mottled silty clay, moist
				very dark gray, light brown mottled silty clay
				4.0

Bottom of hole at 4.0 feet.

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BORING NUMBER OS-AT2-NA

CLIENT Blue Tee Corp. **PROJECT NAME** Old American Zinc Plant Site

PROJECT NUMBER C1727 **PROJECT LOCATION** Fairmont City, IL

DATE STARTED 03/27/07 **COMPLETED** 03/27/07 **GROUND ELEVATION** _____ **HOLE SIZE** 2"

DRILLING CONTRACTOR GeoServe, Inc. **GROUND WATER LEVELS:**

DRILLING METHOD Direct Push **AT TIME OF DRILLING** ---

LOGGED BY M. Gotto **CHECKED BY** P. Thomson **AT END OF DRILLING** ---

NOTES Sampler: 4' Macro Core **AFTER DRILLING** ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION
0				
	MC 1	69		0.3 **GRAVEL**, mixed with small amounts of soil, trace roots
				1.0 **SLAG**, black, fine, dry
				CLAYEY SILT, dark brown, light brown mottled clayey silt, minor fine sand, slightly moist
				brown, gray mottled clayey silt, fine sand, moist
				3.0 **CLAYEY SAND**, brown moist
				4.0 Bottom of hole at 4.0 feet.

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BORING NUMBER OS-AT2-NB

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 03/27/07 **COMPLETED** 03/27/07
GROUND ELEVATION **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION
0				
	MC 1	63		0.3 **GRASS/TOPSOIL**, black, silty, mixed with gravel
				1.0 **SLAG**, black, fine, dry
				CLAYEY SILT, dark gray, slightly moist
				brown, gray mottled, plastic, moist
				3.0 **SILTY CLAY**, light brown to brown, minor fine sand, plastic, moist
				4.0 Bottom of hole at 4.0 feet.

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BORING NUMBER OS-AT2-NC

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 03/27/07 **COMPLETED** 03/27/07
GROUND ELEVATION **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION
0				
	MC 1	83		0.1 **GRASS/TOPSOIL**, black, dry
				GRAVEL, coarse, dry
				0.6 **SLAG**, black, fine, dry
				1.0 **CLAYEY SILT**, dark gray, plastic, dry
				brown mottled clayey silt, plastic, slightly moist
				3.0 **SILTY CLAY**, gray, brown mottled silty clay, plastic, moist
				4.0 Bottom of hole at 4.0 feet.

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BORING NUMBER OS-AT2-SA

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 03/27/07 **COMPLETED** 03/27/07
GROUND ELEVATION **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION
0				
	MC 1	98		0.2 **GRASS/TOPSOIL**
				0.8 **SLAG**, black, silty, moist
				CLAYEY SILT, dark gray, minor fine sand, slightly moist
				2.0 dark gray, black mottled clayey silt, moist
				SILTY CLAY, gray, brown and dark gray mottled silty clay, medium stiff, plastic, moist
				gray
				4.0 brown, stiff, dark gray mottled silty clay, moist
				Bottom of hole at 4.0 feet.

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BORING NUMBER OS-AT2-SB

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 03/27/07 **COMPLETED** 03/27/07
GROUND ELEVATION **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION
0				
0.2				**TOPSOIL**, silty, dark gray, dry
0.8				**SLAG**, black, fine
	MC 1	79		**SILTY CLAY**, dark brown, light brown mottled silty clay, minor fine sand, moist
				brown, minor fine sand, slightly moist
3.5				**CLAYEY SILT**, brown, plastic, moist
4.0				Bottom of hole at 4.0 feet.

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BORING NUMBER OS-AT2-SC

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 03/27/07 **COMPLETED** 03/27/07
GROUND ELEVATION **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION
0				
	MC 1	79		0.1 **GRASS/TOPSOIL**, black, sandy, silty, trace gravel, dry
				GRAVEL, white, coarse
				0.3 **SILTY CLAY**, very dark gray, stiff, light brown mottled silty clay, dry
				brown, dark brown to black mottled silty clay, stiff to very stiff, dry to slightly moist
				brown, dry
				3.5 **SANDY SILT**, brown, dry
				4.0 Bottom of hole at 4.0 feet.

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BORING NUMBER OS-AT3-NA

CLIENT Blue Tee Corp. **PROJECT NAME** Old American Zinc Plant Site

PROJECT NUMBER C1727 **PROJECT LOCATION** Fairmont City, IL

DATE STARTED 03/27/07 **COMPLETED** 03/27/07 **GROUND ELEVATION** _____ **HOLE SIZE** 2"

DRILLING CONTRACTOR GeoServe, Inc. **GROUND WATER LEVELS:**

DRILLING METHOD Direct Push **AT TIME OF DRILLING** ---

LOGGED BY M. Gotto **CHECKED BY** P. Thomson **AT END OF DRILLING** ---

NOTES Sampler: 4' Macro Core **AFTER DRILLING** ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION
0				
	MC 1	69		0.3 GRAVEL, coarse, dry
				SLAG, black, fine, dry
				0.7 **CLAYEY SILT**, dark gray, black mottled clayey silt, dry
				dark brown, dark gray mottled clayey silt, minor fine sand, dry
				3.0 brown, sandy, slightly moist
				4.0 **CLAYEY SAND**, brown, moist
				Bottom of hole at 4.0 feet.

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BORING NUMBER OS-AT3-NB

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 03/27/07 **COMPLETED** 03/27/07
GROUND ELEVATION **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION
0				
	MC 1	56		0.2 **GRAVEL**, crushed, mixed with coarse pieces, dry
				1.0 **SLAG**, black, mixed with brick debris, dry
				CLAYEY SILT, dark gray, minor fine sand, dry
				brown, dark gray mottled clayey silt, minor fine sand, slightly moist
				fine sand, brown dark gray mottled clayey sand, moist
				4.0
				Bottom of hole at 4.0 feet.

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BORING NUMBER OS-AT3-NC

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 03/27/07 **COMPLETED** 03/27/07
GROUND ELEVATION **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION
0				
	MC 1	79		0.3 **GRAVEL**, mixed with slag-like material, dark gray, dry **CLAYEY SILT**, dark gray, stiff, dry brown, dark gray mottled clayey silt, plastic brown, friable, dry 4.0
				Bottom of hole at 4.0 feet.

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BORING NUMBER OS-AT3-SA

CLIENT Blue Tee Corp. **PROJECT NAME** Old American Zinc Plant Site

PROJECT NUMBER C1727 **PROJECT LOCATION** Fairmont City, IL

DATE STARTED 03/27/07 **COMPLETED** 03/27/07 **GROUND ELEVATION** _____ **HOLE SIZE** 2"

DRILLING CONTRACTOR GeoServe, Inc. **GROUND WATER LEVELS:**

DRILLING METHOD Direct Push **AT TIME OF DRILLING** ---

LOGGED BY M. Gotto **CHECKED BY** P. Thomson **AT END OF DRILLING** ---

NOTES Sampler: 4' Macro Core **AFTER DRILLING** ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION
0				0.2 **TOPSOIL**, grass, mixed with gravel
				1.0 **SLAG**, black, fine, dry
	MC 1	63		**CLAYEY SILT**, dark gray, plastic, slightly moist
				dark gray, brown mottled clayey silt, moist
				4.0 brown, dark brown mottled clayey silt, plastic, slightly moist
				Bottom of hole at 4.0 feet.

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BORING NUMBER OS-AT3-SB

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 03/27/07 **COMPLETED** 03/27/07
GROUND ELEVATION _____ **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION
0				
	MC 1	71		0.3 **GRAVEL**, coarse, dry 0.8 **SLAG**, black, fine, mixed with silty, slag-like material **CLAYEY SILT**, dark gray, trace roots, plastic, moist brown mottled clayey silt, plastic, moist 4.0
				Bottom of hole at 4.0 feet.

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BORING NUMBER OS-AT3-SC

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 03/27/07 **COMPLETED** 03/27/07
GROUND ELEVATION **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION
0				
	MC 1	88		0.4 GRAVEL, grayish-white, coarse, dry **SLAG**, black, fine, mixed with coarse pieces, dry 2.0 **CLAYEY SILT**, dark gray, trace oxidation, plastic, slightly moist oxidation veining gray, brown mottled clayey silt, oxidation, very plastic, moist 4.0
				Bottom of hole at 4.0 feet.

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BORING NUMBER OS-AT4-A

CLIENT Blue Tee Corp. **PROJECT NAME** Old American Zinc Plant Site

PROJECT NUMBER C1727 **PROJECT LOCATION** Fairmont City, IL

DATE STARTED 03/27/07 **COMPLETED** 03/27/07 **GROUND ELEVATION** _____ **HOLE SIZE** 2"

DRILLING CONTRACTOR GeoServe, Inc. **GROUND WATER LEVELS:**

DRILLING METHOD Direct Push **AT TIME OF DRILLING** ---

LOGGED BY M. Gotto **CHECKED BY** P. Thomson **AT END OF DRILLING** ---

NOTES Sampler: 4' Macro Core **AFTER DRILLING** ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION
0				
	MC 1	73		0.3 **GRASS/TOPSOIL**, mixed with coarse gravel
				0.8 **SLAG**, black, fine, mixed with dark gray clayey silt
				CLAYEY SILT, dark gray, minor fine sand, plastic, slightly moist
				brown, dark gray mottled clayey silt, minor fine sand, plastic, slightly moist
				brown, fine sand, plastic, moist
				4.0 Bottom of hole at 4.0 feet.

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BORING NUMBER OS-AT4-B

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 03/27/07 **COMPLETED** 03/27/07
GROUND ELEVATION **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION
0				
	MC 1	85		0.4 **TOPSOIL**, mixed with coarse gravel, dry
				1.3 **SLAG**, black, fine, oxidized, mixed with fine sands
				CLAYEY SILT, dark gray, plastic, slightly moist
				brown, dark gray mottled clayey silt, plastic, stiff, minor fine sand
				4.0 Bottom of hole at 4.0 feet.

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BORING NUMBER OS-AT4-C

CLIENT Blue Tee Corp. **PROJECT NAME** Old American Zinc Plant Site

PROJECT NUMBER C1727 **PROJECT LOCATION** Fairmont City, IL

DATE STARTED 03/27/07 **COMPLETED** 03/27/07 **GROUND ELEVATION** _____ **HOLE SIZE** 2"

DRILLING CONTRACTOR GeoServe, Inc. **GROUND WATER LEVELS:**

DRILLING METHOD Direct Push **AT TIME OF DRILLING** ---

LOGGED BY M. Gotto **CHECKED BY** P. Thomson **AT END OF DRILLING** ---

NOTES Sampler: 4' Macro Core **AFTER DRILLING** ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION
0				
	MC 1	100		0.2 **TOPSOIL** mixed with slag-like material 0.8 **CLAYEY SILT**, dark gray, friable, hard, oxidized, dry gray, dark gray mottled clayey silt, slightly moist brown, dark gray mottled clayey silt, small amounts of oxidation, plastic, slightly moist brown, light gray mottled clayey silt, minor fine sand, slightly moist 4.0
				Bottom of hole at 4.0 feet.

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BORING NUMBER OS-AT5-A

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 03/27/07 **COMPLETED** 03/27/07
GROUND ELEVATION **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY J. Stofferahn **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION
0				
	MC 1	71		0.3 **GRASS** **SLAG** 0.7 **SILT**, very dark gray, reddish-brown mottled silty clay, gray to very dark gray with some brown mottling, slightly moist 2.8
				Bottom of hole at 4.0 feet.

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BORING NUMBER OS-AT5-B

CLIENT Blue Tee Corp. **PROJECT NAME** Old American Zinc Plant Site

PROJECT NUMBER C1727 **PROJECT LOCATION** Fairmont City, IL

DATE STARTED 03/28/07 **COMPLETED** 03/28/07 **GROUND ELEVATION** _____ **HOLE SIZE** 2"

DRILLING CONTRACTOR GeoServe, Inc. **GROUND WATER LEVELS:**

DRILLING METHOD Direct Push **AT TIME OF DRILLING** ---

LOGGED BY M. Gotto **CHECKED BY** P. Thomson **AT END OF DRILLING** ---

NOTES Sampler: 4' Macro Core **AFTER DRILLING** ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION
0				
	MC 1	83		0.3 **TOPSOIL**, mixed with coarse gravel
				SLAG, mixed with reddish-brown (oxidized) clayey silt
				0.8 **CLAYEY SILT**, dark gray, plastic, moist
				brown, gray mottled clayey silt, plastic, minor amounts of reddish-brown (oxidation), moist
				3.3 brown
				Bottom of hole at 4.0 feet.

ENTACT & Associates, LLC
1010 Executive Court, Suite 280
Westmont, Illinois 60559
Telephone: 630.986.2900
Fax: 630.986.0653

BORING NUMBER OS-AT6-A

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 03/27/07 **COMPLETED** 03/27/07
GROUND ELEVATION **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY J. Stofferahn **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION
0				
	MC 1	81		**SLAG** mixed with black loam topsoil
0.8				mixed with very dark gray silty clay
				CLAYEY SILT, dark brown, friable
				moist???
3.3				brown mottld clayey silt, ?????
				Bottom of hole at 4.0 feet.

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BORING NUMBER OS-AT6-B

CLIENT Blue Tee Corp. **PROJECT NAME** Old American Zinc Plant Site

PROJECT NUMBER C1727 **PROJECT LOCATION** Fairmont City, IL

DATE STARTED 03/27/07 **COMPLETED** 03/27/07 **GROUND ELEVATION** **HOLE SIZE** 2"

DRILLING CONTRACTOR GeoServe, Inc. **GROUND WATER LEVELS:**

DRILLING METHOD Direct Push **AT TIME OF DRILLING** ---

LOGGED BY J. Stofferahn **CHECKED BY** P. Thomson **AT END OF DRILLING** ---

NOTES Sampler: 4' Macro Core **AFTER DRILLING** ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION
0				
	MC 1	58		0.3 **TOPSOIL**, dark brown, loamy topsoil with gravel **SILTY CLAY**, very dark gray, dry????? 0.6 as above with gravel and slag pieces 2.3 **CLAYEY SILT**, brown, slightly moist, grading to light brown clayey silt, slightly moist, grading to light brown clayey silt, moist

Bottom of hole at 4.0 feet.

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Telephone: 630.986.2900
Fax: 630.986.0653

BORING NUMBER OS-AT6-C

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 03/27/07 **COMPLETED** 03/27/07
GROUND ELEVATION **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY J. Stofferahn **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION
0				
	MC 1	85		0.3 **TOPSOIL**, browm, loamy topsoil **SILTY CLAY**, friable, dry dark brown and brown mottled silty clay, slightly moist 3.4
				Bottom of hole at 4.0 feet.

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Telephone: 630.986.2900
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BORING NUMBER OS-AT7-A

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 03/27/07 **COMPLETED** 03/27/07
GROUND ELEVATION **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY J. Stofferahn **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION
0				
	MC 1	79		0.3 **GRAVEL** **FILL**, mixture of gravel and slag 1.2 very dark gray slag **SILTY CLAY**, very dark gray, dry 3.2 very dark brown silty clay, brown mottled grading to brown clayey silt, very slightly moist

Bottom of hole at 4.0 feet.

GENERAL BH / TP / WELL OAZ LOGS.GPJ GINT US.GDT 04/01/08

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Fax: 630.986.0653

BORING NUMBER OS-AT7-B

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 03/27/07 **COMPLETED** 03/27/07
GROUND ELEVATION **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY J. Stofferahn **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION
0				
	MC 1	79		0.4 **GRAVEL**
				SLAG, black
				0.8 **SILTY CLAY**, very dark gray with some brown mottling, slightly moist
				very dark brown, slightly moist
				3.2 very dark brown and brown mottled silty clay, slightly moist

Bottom of hole at 4.0 feet.

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BORING NUMBER OS-AT7-C

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 03/27/07 **COMPLETED** 03/27/07
GROUND ELEVATION **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY J. Stofferahn **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION
0				
	MC 1	83		0.3 **GRAVEL** **SILTY CLAY**, very dark gray, dry 0.6 **SLAG** 0.8 **SILTY CLAY**, very dark gray, dry dark gray and brown silty clay, dry to slightly moist 3.3
				Bottom of hole at 4.0 feet.

GENERAL BH / TP / WELL OAZ LOGS.GPJ GINT US.GDT 04/01/08

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BORING NUMBER OS-AT8-C

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 03/26/07 **COMPLETED** 03/26/07
GROUND ELEVATION **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION
0				
	MC 1	83		0.3 **GRAVEL**, crushed, grayish-white, dry 1.0 **SLAG**, black, fine, dry **SILTY CLAY**, very dark gray, medium stiff to stiff, pliable, dry dark brown mottled silty clay, medium stiff, very pliable, dry to slightly moist gray, soft, trace amounts of reddish-brown (oxidized) silty clay, dry 4.0
				Bottom of hole at 4.0 feet.

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BORING NUMBER OS-AT8-E

CLIENT Blue Tee Corp.
PROJECT NAME Old American Zinc Plant Site
PROJECT NUMBER C1727
PROJECT LOCATION Fairmont City, IL
DATE STARTED 03/26/07 **COMPLETED** 03/26/07
GROUND ELEVATION _____ **HOLE SIZE** 2"
DRILLING CONTRACTOR GeoServe, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY M. Gotto **CHECKED BY** P. Thomson
AT END OF DRILLING ---
NOTES Sampler: 4' Macro Core
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION
0				
	MC 1	100		0.3 **GRAVEL**, dry
				SLAG, black, fine to coarse grain, dry
				1.4 **SILTY CLAY**, very dark gray, medium stiff, pliable, dry
				4.0 gray, medium stiff, pliable
				Bottom of hole at 4.0 feet.

GENERAL BH / TP / WELL OAZ LOGS.GPJ GINT US.GDT 04/01/08

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1010 Executive Court, Suite 280
Westmont, Illinois 60559
Telephone: 630.986.2900
Fax: 630.986.0653

BORING NUMBER OS-AT8-W

CLIENT Blue Tee Corp. **PROJECT NAME** Old American Zinc Plant Site

PROJECT NUMBER C1727 **PROJECT LOCATION** Fairmont City, IL

DATE STARTED 03/26/07 **COMPLETED** 03/26/07 **GROUND ELEVATION** _____ **HOLE SIZE** 2"

DRILLING CONTRACTOR GeoServe, Inc. **GROUND WATER LEVELS:**

DRILLING METHOD Direct Push **AT TIME OF DRILLING** ---

LOGGED BY M. Gotto **CHECKED BY** P. Thomson **AT END OF DRILLING** ---

NOTES Sampler: 4' Macro Core **AFTER DRILLING** ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION
0				
	MC 1	100		0.6 **GRAVEL**, crushed, dry **SLAG**, slag-like material, black, fine to medium grain, dry 1.0 **SILTY CLAY**, dark gray, medium stiff, reddish-brown (oxidized) veining, trace roots dark gray, stiff, plastic, reddish-brown (oxidized) veining, dry dark gray, medium stiff, plastic, trace amounts of reddish-brown silty clay, dry 4.0

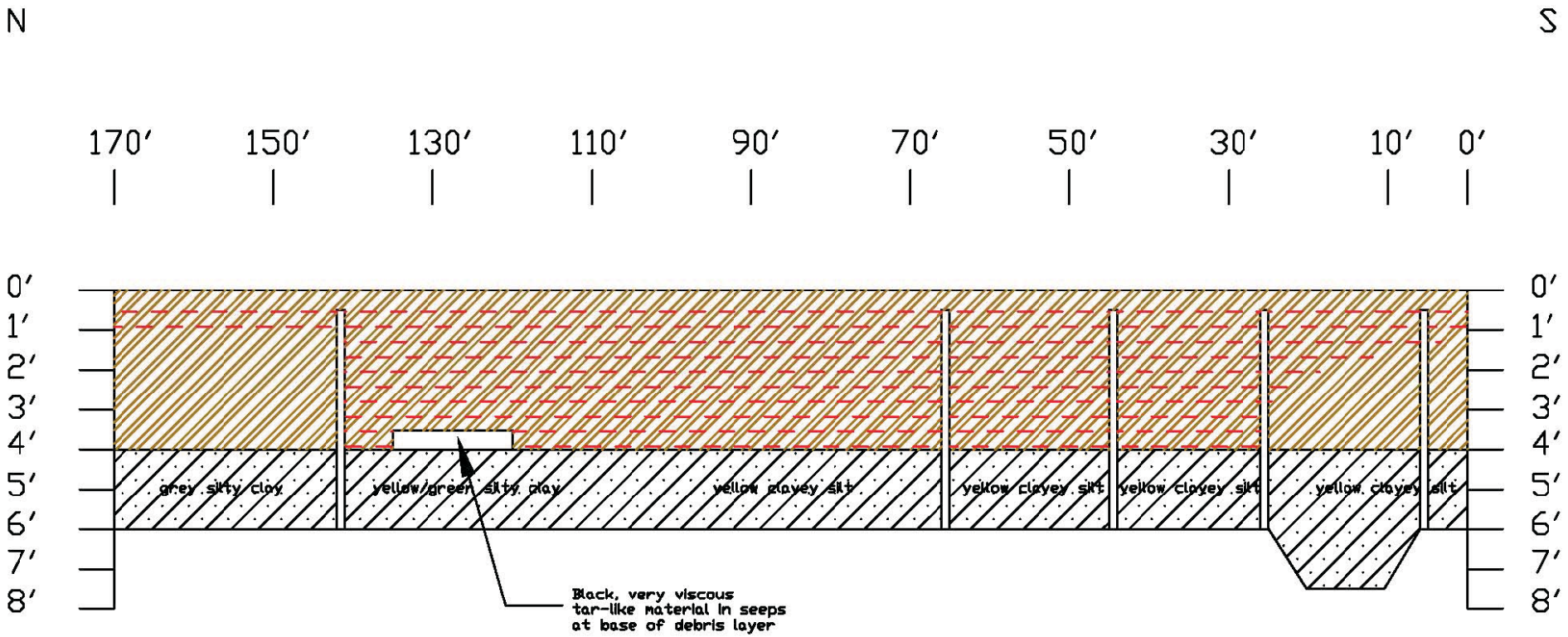
Bottom of hole at 4.0 feet.

GENERAL BH / TP / WELL OAZ LOGS.GPJ GINT US.GDT 04/01/08

APPENDIX C-2

TRENCHING DIAGRAMS

TRENCH 1



LEGEND

- DEMOLITION DEBRIS
- SLAG/SLAG-LIKE GRANULAR FILL
- SOIL
- FOOTER WALL

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DATE	BY	CHK'D	APP'D	REVISIONS	NO

ENTACT & ASSOCIATES, LLC

ENTACT

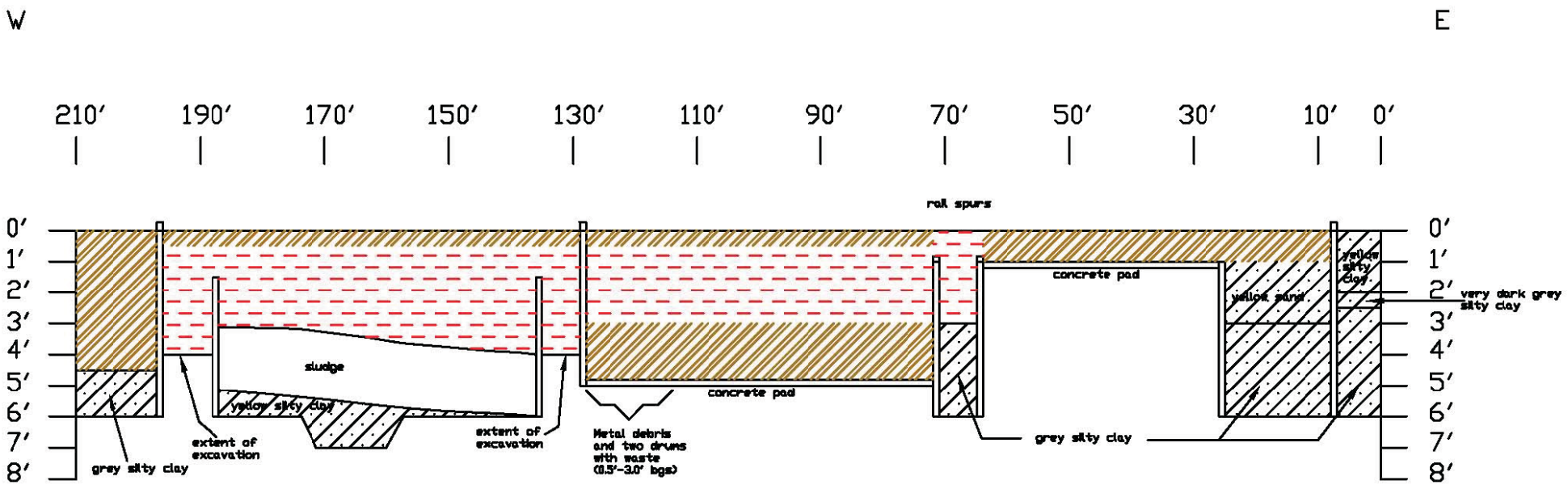
AMERICAN ZINC RIFS
FAIRMONT CITY, ILLINOIS

TRENCH #1

DESIGNED BY	JNS	10/2/08	CHECKED BY	JNS	
DRAWN BY	RR		APPROVED BY	JNS	

SCALE: HS: 1"=20' VS: 1"=4'	PROJECT NO. C-1727	FIGURE NO. T-1	REVISION NO. ---

TRENCH 2



LEGEND

- DEMOLITION DEBRIS
- SLAG/SLAG-LIKE GRANULAR FILL
- SOIL
- FOOTER WALL

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DATE	BY	CHK'D	APP'D	REVISIONS	NO

ENTACT & ASSOCIATES, LLC

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AMERICAN ZINC RIFS
FAIRMONT CITY, ILLINOIS

TRENCH #2

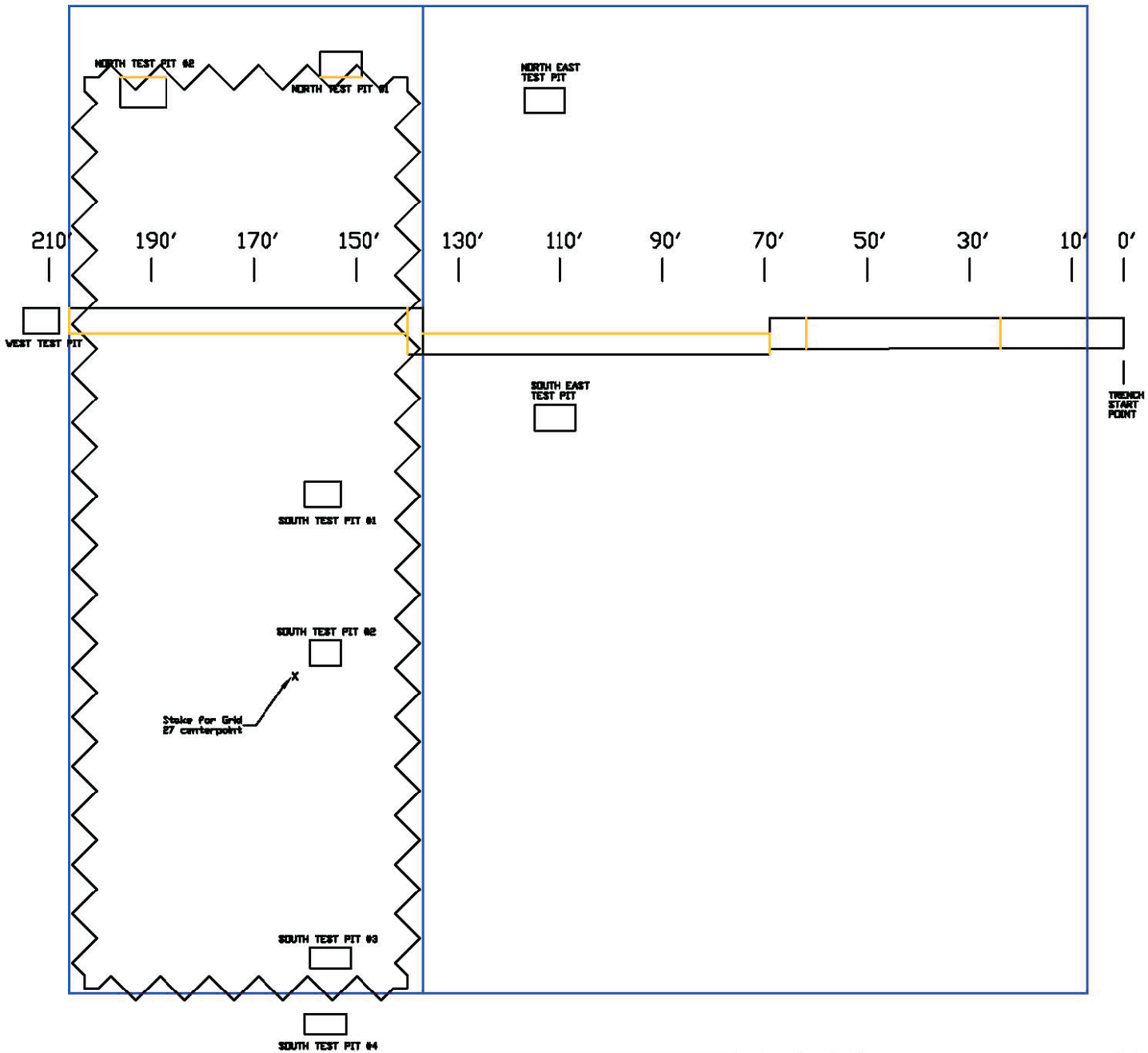
DESIGNED BY	JAS	10/2/09	CHECKED BY	JAS	
DRAWN BY	AR		APPROVED BY	JAS	

SCALE: HS: 1"=25' VS: 1"=5'

PROJECT NO. C-1727

FIGURE NO. T-2

REVISION NO. ----



LEGEND

- CONCRETE FOOTER WALL, EXPOSED AT SURFACE
- CONCRETE FOOTER WALL, BURIED
- ESTIMATED AREA WITH BURIED SLUDGE

NOTES:
1) SLUDGE ENCOUNTERED IN WESTERN 1/3 OF TRENCH, AND NORTH TEST PIT #2, SOUTH TEST PIT#1 SOUTH TEST PIT #2 AND SOUTH TEST PIT #3.
2) SOUTH TEST PIT #4 ADVANCED ONLY TO 0.5' bgs, BURIED CONCRETE SLAB ENCOUNTERED.

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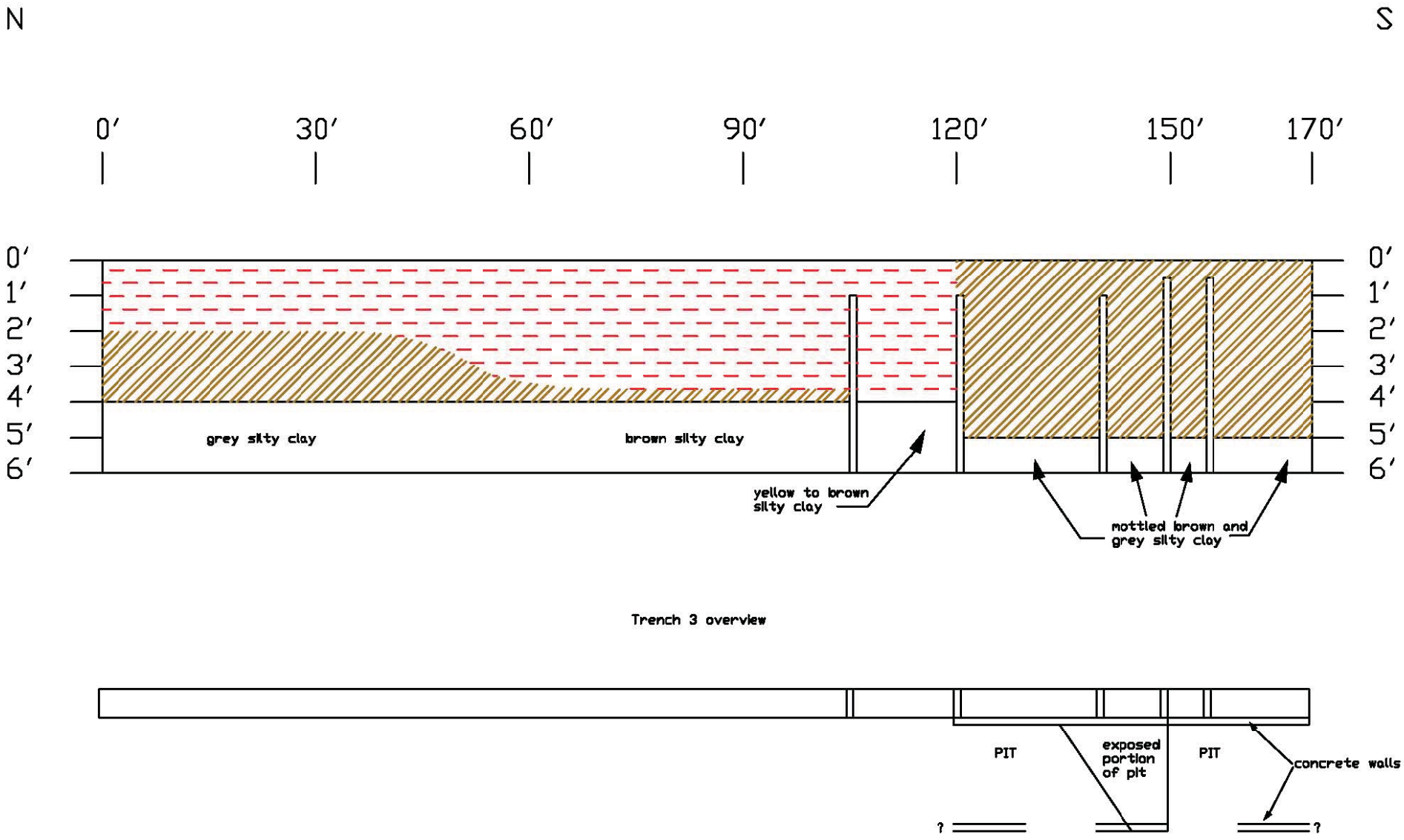
AMERICAN ZINC RIFS
FAIRMONT CITY, ILLINOIS

TRENCH #2 OVERVIEW

DESIGNED BY	JAS	10/2/08	CHECKED BY	JAS	
DRAWN BY	RR		APPROVED BY	JAS	

SCALE	PROJECT NO.	FIGURE NO.	REVISION NO.
1"=30'	C-1727	T-2a	---

TRENCH 3



Trench 3 overview

LEGEND

- DEMOLITION DEBRIS
- SLAG/SLAG-LIKE GRANULAR FILL
- SOIL
- FOOTER WALL

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DATE	BY	CHK'D	APP'D	REVISIONS	NO

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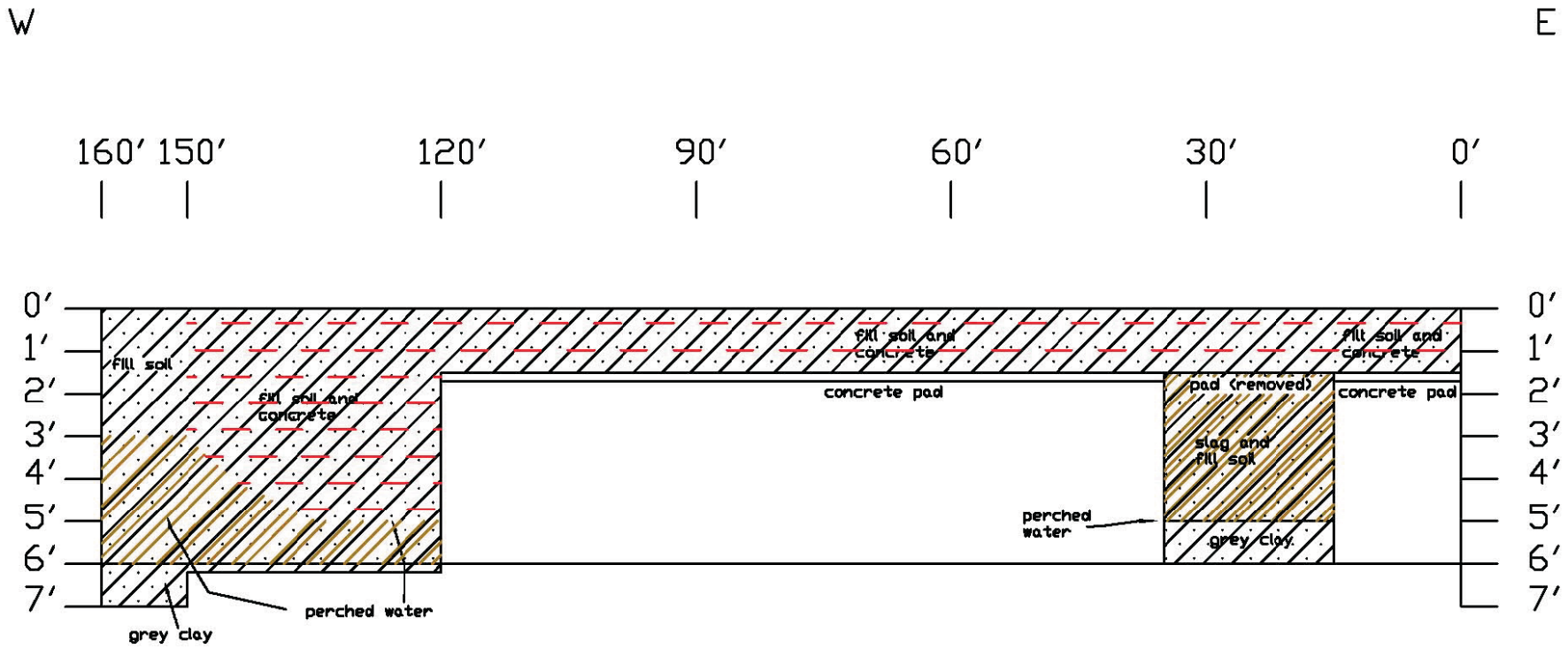
FAIRMONT CITY, ILLINOIS

TRENCH #3

DESIGNED BY	JAS	10/2/08	CHECKED BY	JAS	
DRAWN BY	KR		APPROVED BY	JAS	

SCALE	PROJECT NO.	FIGURE NO.	REVISION NO.
HOR: 1"=20' VER: 1"=4'	C-1727	T-3	---

TRENCH 4



LEGEND

- DEMOLITION DEBRIS
- SLAG/SLAG-LIKE GRANULAR FILL
- SOIL
- FOOTER WALL

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DATE	BY	CHK'D	APP'D	REVISIONS	NO

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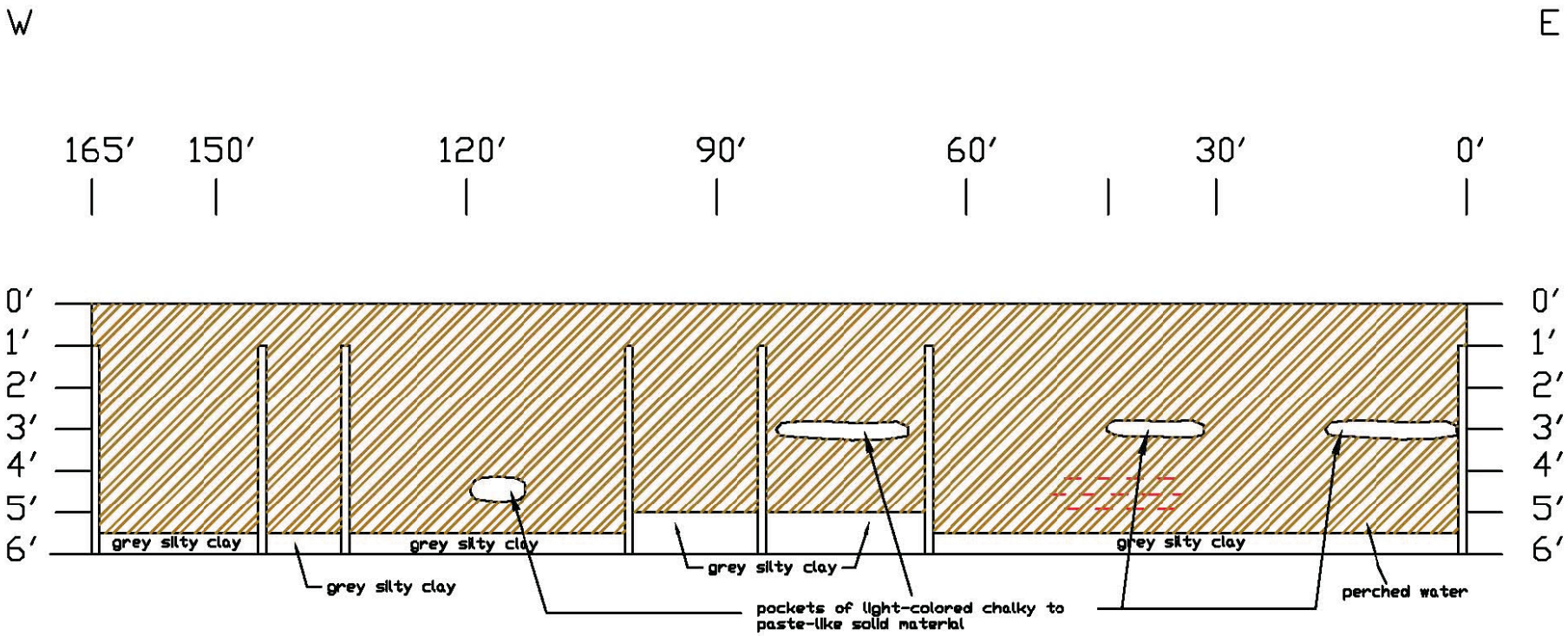
FAIRMONT CITY, ILLINOIS

TRENCH #4

DESIGNED BY	JAS	10/2/08	CHECKED BY	JAS	
DRAWN BY	KR		APPROVED BY	JAS	

SCALE	PROJECT NO.	FIGURE NO.	REVISION NO.
HOR: 1"=20' VER: 1"=4'	C-1727	T-4	---

TRENCH 5



LEGEND

- DEMOLITION DEBRIS
- SLAG/SLAG-LIKE GRANULAR FILL
- SOIL
- FOOTER WALL

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DATE	BY	CHK'D	APPR'D	REVISIONS	NO

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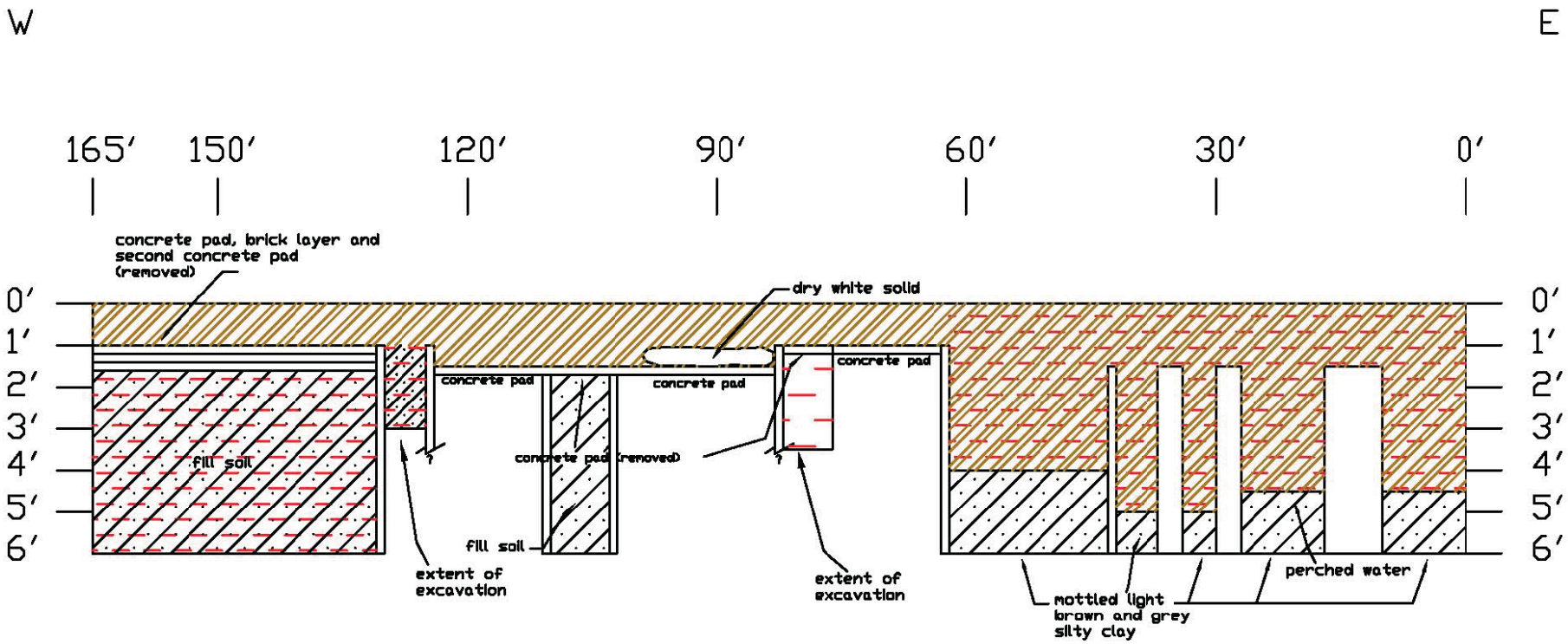
AMERICAN ZINC RIFS
FAIRMONT CITY, ILLINOIS

TRENCH #5

DESIGNED BY	JAS	10/2/08	CHECKED BY	JAS	
DRAWN BY	RR		APPROVED BY	JAS	
SCALE: HS: 1"=20' VS: 1"=4'	PROJECT NO. C-1727		FIGURE NO. T-5	REVISION NO. ---	

TRENCH 6



LEGEND

- DEMOLITION DEBRIS
- SLAG/SLAG-LIKE GRANULAR FILL
- SOIL
- FOOTER WALL

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DATE	BY	CHK'D	APP'D	REVISIONS	NO

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ENTACT

AMERICAN ZINC RIFS
FAIRMONT CITY, ILLINOIS

TRENCH #6

DESIGNED BY	JAS	10/2/08	CHECKED BY	JAS	
DRAWN BY	RR		APPROVED BY	JAS	

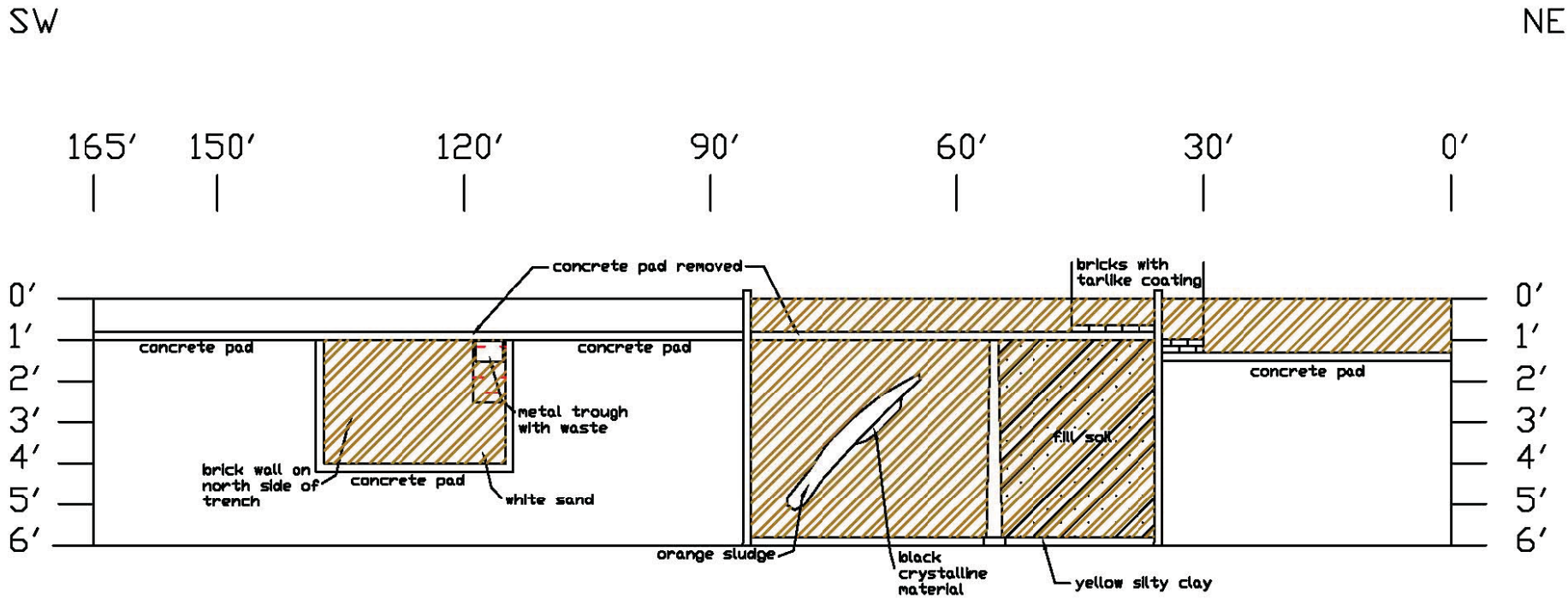
SCALE: HS: 1"=20' VS: 1"=4'

PROJECT NO. C-1727

FIGURE NO. T-6

REVISION NO. ---

TRENCH 7



LEGEND

- DEMOLITION DEBRIS
- SLAG/SLAG-LIKE GRANULAR FILL
- SOIL
- FOOTER WALL

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ENTACT & ASSOCIATES, LLC

DATE	BY	CHK'D	APP'D	REVISIONS	NO

ENTACT

AMERICAN ZINC REFS
FAIRMONT CITY, ILLINOIS

TRENCH #7

DESIGNED BY	JAS	10/2/08	CHECKED BY	JAS	
DRAWN BY	AR		APPROVED BY	JAS	
SCALE: Hor. 1"=20' Ver. 1"=4'	PROJECT NO. C-1727		FIGURE NO. T-7	REVISION NO. ---	

APPENDIX C-3

SEDIMENT AND SURFACE WATER SAMPLING LOGS

Sediment/ Surface Water Sampling Form

ENTACT
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Sample No.: Site: FAIRMONT CITY Project No.: Date: 5/30/06

Sampling Method: SEDIMENT COLLECTION

Weather Conditions: HOT, OVERCAST 90°

Surface Water

Time	Depth of Water Column (D.T.W.)	Depth to Bottom (D.T.B.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
N/A										

Sediment

Time	Sample Interval (ft)		Description							
1630	0.5'		SD-04-0.5'							

Comments: NO WATER PRESENT IN DITCH. SAMPLE (SEDIMENT) COLLECTED AT 0.5' bgs FOR TOTAL METALS AND PESTICIDES.

Sediment/ Surface Water Sampling Form

ENTACT
ing the Nation in Customer Care

Sample No.: Site: SD/SW -08 Project No.: **Date:** 5/31/06

Sampling Method: SURFACE WATER COLLECTION & SEDIMENT COLLECTION

Weather Conditions: CLOUDY & HOT

Surface Water

Time	Depth of Water Column (D.T.W.)	Depth to Bottom (D.T.B.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
0810			7.31	456 us/cm	25.24°C	DRAW	N			

Sediment

Time	Sample Interval (ft)		Description							
0810	0.5		SD-08-0.5							

Comments:

PHOTOS

SD-08 (3-6)

Sediment/ Surface Water Sampling Form

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Sample No.: Site: SD/SW-06 Project No.: Date: 5/31/06

Sampling Method: SURFACE WATER & SEDIMENT COLLECTION

Weather Conditions: PARTLY CLOUDY

Surface Water

Time	Depth of Water Column (D.T.W.)	Depth to Bottom (D.T.B.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
0910			7.06	322	26.33°	DARK BROWN	N		3.6	

Sediment

Time	Sample Interval (ft)		Description						
0910	0.5'		SD-06-0.5						

Comments:

PHOTO:
SW/SD-08 = 7-10

Sediment/ Surface Water Sampling Form

ENTACT
...ling the Nation in Customer Care

Sample No.: Site: SD/SW-05 Project No.: 5/31/06 **Date:**

Sampling Method: SURFACE/SEDIMENT COLLECTION

Weather Conditions: AFRICA HOT

Surface Water

Time	Depth of Water Column (D.T.W.)	Depth to Bottom (D.T.B.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
0955			7.6	361	27.79°	TAN	N		5.05	

SW-05

Sediment

Time	Sample Interval (ft)		Description							
0955	0.5'	SD-05-0.5								

Comments:

PHOTOS = (11-14)

Sediment/ Surface Water Sampling Form

ENTACT
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Sample No.: Site: SD/SW-01 Project No.: Date: 5/31/06

Sampling Method: SURFACE WATER / SEDIMENT COLLECTION

Weather Conditions: CLOUDY & HOT

Surface Water

Time	Depth of Water Column (D.T.W.)	Depth to Bottom (D.T.B.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
1030			6.5	4716	27.3	BLACK	N		1.21	

Sediment

Time	Sample Interval (ft)		Description							
1030	0.5'		SD-01	-0.5						

Comments:

PHOTOS = (15-16)

Sediment/ Surface Water Sampling Form

ENTACT
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Sample No.: Site: SD-02-0.5 Project No.: 5/31/06 **Date:**

Sampling Method: SEDIMENT COLLECTION ONLY (NO WATER PRESENT)

Weather Conditions: CLOUDY & MUGGY

Surface Water

Time	Depth of Water Column (D.T.W.)	Depth to Bottom (D.T.B.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
N/A										

NO WATER PRESENT

Sediment

Time	Sample Interval (ft)		Description							
1110	0.5'		SD-02-0.5'							

Comments:

photos (17-19)

Sediment/ Surface Water Sampling Form

ENTACT
...ing the Nation in Customer Care

Sample No.: Site: SD-29-33-0.5 Project No.: 1727 **Date:** 6/1/06

Sampling Method: SEDIMENT COLLECTION ONLY (NO WATER PRESENT)

Weather Conditions: CLOUDY AND HOT.

Surface Water

Time	Depth of Water Column (D.T.W.)	Depth to Bottom (D.T.B.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
N/A										

Sediment

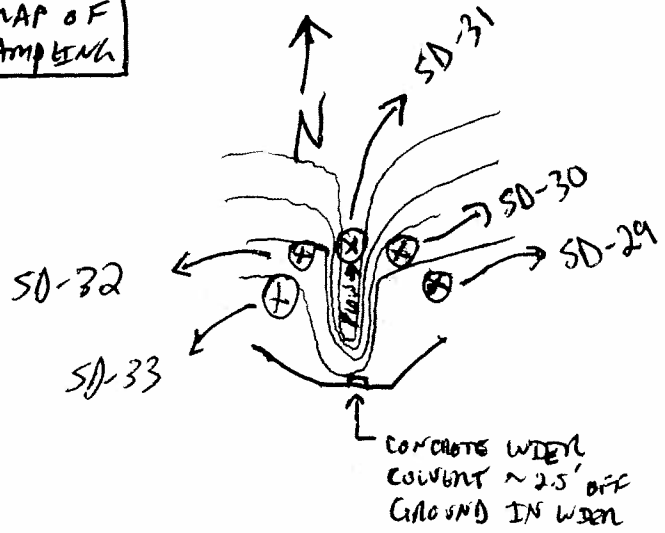
Time	Sample Interval (ft)		Description							
0845	SD-29-0.5'									
0855	SD-30-0.5'									
905	SD-31-0.5									
910	SD-32-0.5									
920	SD-33-0.5									

Comments:

NO WATER PRESENT IN DITCH. LOTS OF DEBRIS (i.e., TREE LIMBS & STUMPS APPROX. 10' IN FRONT OF CULVERT.)

SD-31 = PHOTO 28

MAP OF SAMPLING



Sediment/ Surface Water Sampling Form

CONTACT
Leading the Nation in Customer Care

Sample No.: Site: SD-03 Project No.: C1724 Date: 6/1/06

Sampling Method: SEDIMENT COLLECTION (NO WATER PRESENT IN DITCH)

Weather Conditions: CLOUDY AND HOT.

Surface Water

Time	Depth of Water Column (D.T.W.)	Depth to Bottom (D.T.B.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
N/A										

Sediment

Time	Sample Interval (ft)		Description							
1010	0.5'	SD-03-0.5								

Comments: SAMPLE COLLECTION POINT OFFSET TO NORTH SIDE OF CARGILL FACILITY DRIVE W/ AT A POINT TOPOGRAPHICALLY IDEAL FOR STORMWATER RUNOFF CONVEYANCE (ALONG W. SIDE OF ROAD). NO WATER PRESENT IN DITCH.

SD-03-0.5 = PHOTO 29

Sediment/ Surface Water Sampling Form

ENTACT
...ding the Nation in Customer Care

Sample No.: Site: SD-04-0.5 Project No.: C1727 **Date:** 6/1/06

Sampling Method: SEDIMENT COLLECTION (NO WATER PRESENT)

Weather Conditions: PARTLY CLOUDY, HOT

Surface Water

Time	Depth of Water Column (D.T.W.)	Depth to Bottom (D.T.B.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
	N/A →									

Sediment

Time	Sample Interval (ft)		Description							
1030	0.5'		SD-04-0.5							

Comments: NO WATER PRESENT IN DITCH. SATURATED, DARK COLORED ORGANIC SEDIMENT WITHIN FLOW LINE OF DRAINAGE DITCH.

SD-04-0.5 = PHOTO 30

Sediment/ Surface Water Sampling Form

ENTACT
Leading the Nation in Customer Care

Sample No.: Site: SD-28-0.5 Project No.: 127 Date: 6/1/06

Sampling Method: SEDIMENT COLLECTION (NO WATER PRESENT IN DITCH)

Weather Conditions: CLOUDY & HOT

Surface Water

Time	Depth of Water Column (D.T.W.)	Depth to Bottom (D.T.B.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
N/A										

Sediment

Time	Sample Interval (ft)		Description							
1100	0.5		SD-28-0.5							

Comments: SAMPLE OFFSET TO APPROXIMATELY 10' UP STREAM of 24" CULVERT. NO WATER PRESENT IN DITCH.

PHOTO #31

Sediment/ Surface Water Sampling Form

ENTACT
Leading the Nation in Customer Care

Sample No.: Site: SD-27-0.5 Project No.: 1727 **Date:** 6/1/06

Sampling Method: SEDIMENT COLLECTION

Weather Conditions: PARTLY CLOUDY AND HOT

Surface Water

Time	Depth of Water Column (D.T.W.)	Depth to Bottom (D.T.B.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
NA										

Sediment

Time	Sample Interval (ft)		Description							
1115	0.5'		SD-27-0.5							

Comments: SAMPLE OFFSET APPROX. 20' SOUTH OF PLANNED POINT LOCATION SO THAT IT WAS UP STREAM OF CULVERT OPENING. NO WATER PRESENT IN DITCH.

PHOTO # 32

Sediment/ Surface Water Sampling Form

ENTACT
ing the Nation in Customer Care

Sample No.: Site: SD-26-0.5 Project No.: CTRT Date: 6/1/06

Sampling Method: SEDIMENT COLLECTION (NO SURFACE WATER PRESENT)

Weather Conditions: CLOUDY & HOT

Surface Water

Time	Depth of Water Column (D.T.W.)	Depth to Bottom (D.T.B.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
NA →										

Sediment

Time	Sample Interval (ft)		Description							
1135	0.5'		SD-26-0.5							

Comments: NO SURFACE WATER PRESENT IN DITCH. NO VEGETATION PRESENT IN DITCH EITHER.

PHOTO # 33

Sediment/ Surface Water Sampling Form

ENTACT
...ding the Nation in Customer Care

Sample No.: Site: SD-25-0.5 Project No.: C1727 **Date:** 6/1/06

Sampling Method: SEDIMENT COLLECTION (NO SURFACE WATER)

Weather Conditions: SUNNY

Surface Water

Time	Depth of Water Column (D.T.W.)	Depth to Bottom (D.T.B.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
NA										

Sediment

Time	Sample Interval (ft)		Description							
1145	0.5		SD-25-0.5							
			SD-25-0.5-D							

Comments: SAMPLE COLLECTED ALONG WESTERN PROPERTY FENCE IN LOW-LYING AREA. NO WATER PRESENT.

PHOTO # 34

Sediment/ Surface Water Sampling Form

ENTACT
ing the Nation in Customer Care

Sample No.: Site: SD/SW-24 Project No.: C-1727 **Date:** 06/01/06

Sampling Method: Sediment & Surface water collection

Weather Conditions: light rain

Surface Water

Time	Depth of Water Column (D.T.W.)	Depth to Bottom (D.T.B.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
14:10			6.87	852	25.42	light tan	N		3.17	

Sediment

Time	Sample Interval (ft)		Description							
1420	0.5		SD-24-0.5'							

Comments: DRAINAGE DITCH SAMPLE COLLECTED; WATER IN DITCH APPROX. 1.5' DEEP.

NO PHOTO

Sediment/ Surface Water Sampling Form

ENTACT
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Sample No.: Site: SD-23 Project No.: C-1727 **Date:** 06/02/06

Sampling Method: Sediment Sampling

Weather Conditions: Sunny 83°

Surface Water

Time	Depth of Water Column (D.T.W.)	Depth to Bottom (D.T.B.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
13:45										

Sediment

Time	Sample Interval (ft)		Description							
13:45										

Comments: Dry ditch - no standing water - moist dirt dark brown organic soil - vegated area no odor

Sediment/ Surface Water Sampling Form

ENTACT
...ing the Nation in Customer Care

Sample No.: Site: SD-07 Project No.: C-1727 **Date:** 06/02/06

Sampling Method: Sediment & Surface Water

Weather Conditions: 83°F & Sunny

Surface Water

Time	Depth of Water Column (D.T.W.)	Depth to Bottom (D.T.B.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
1400			6.9	725	36.1	clear w/sheen	N	0	5.8	

Sediment

Time	Sample Interval (ft)		Description							
14:10										

Comments: ditch w/ shallow H_2O, black gritty sediment west of asphalt lot. water has sheen.

Sediment/ Surface Water Sampling Form

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Sample No.: Site: SD-12 & SW-12 Project No.: C-1727 **Date:** 06/12/06

Sampling Method: Surface water & sediment sampling

Weather Conditions: 75° F Sunny

Surface Water

Time	Depth of Water Column (D.T.W.)	Depth to Bottom (D.T.B.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
15:45			7.8	605	22.29	Light tan	N			

Sediment

Time	Sample Interval (ft)		Description							
15:15	.5'		SD-12-0.5		& SD-12-0.5 FD					

Comments: Surface water was clear w/ steady movement. Sediment was a brown sandy silt. Heavy veg. around sampling location Field duplicate ~~for~~ SS samples for Sediment & Surface water collected

Sediment/ Surface Water Sampling Form

ENTACT
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Sample No.: Site: SD-10 & SW-10 Project No.: C-1727 Date: 06/12/00

Sampling Method: Surface water & sediment sampling

Weather Conditions: 75°F

Surface Water

Time	Depth of Water Column (D.T.W.)	Depth to Bottom (D.T.B.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
13:45			7.4	497	25.17	N	N		4.02	

Sediment

Time	Sample Interval (ft)		Description							
13:55										

Comments: Water was mostly clear w/ no movement. Sediment was a silty & Brown w/ some veg. in sample. Heavy veg. surrounding sample point

Sediment/ Surface Water Sampling Form

ENTACT
ing the Nation in Customer Care

Sample No.: Site: SW-11 & SD-11 Project No.: C-1727 **Date:** 06/12/06

Sampling Method: Surface Water & Sediment Sampling

Weather Conditions: 75°F Sunny

Surface Water

Time	Depth of Water Column (D.T.W.)	Depth to Bottom (D.T.B.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
13:20			7.71	622	19.84	None	N		6.04	

Sediment

Time	Sample Interval (ft)		Description							
13:30										

Comments: Water was fairly clear w/ little to no movement. Sediment was brown & mostly a fine silt w/ some small rocks/gravel.

Sediment/ Surface Water Sampling Form

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Leading the Nation in Customer Care

Sample No.: Site: SD-13 & SW-13 Project No.: C-1727 Date: 06/12/06

Sampling Method: Sediment & Surface water sampling

Weather Conditions:

Surface Water

Time	Depth of Water Column (D.T.W.)	Depth to Bottom (D.T.B.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
									11.43	
11:07			8.06	543	18.96					

Sediment

Time	Sample Interval (ft)		Description							
11:19										

Comments: Water was clear w/ slight flow. Sediment was a fine silt. Heavy veg. around creek. Some small stones in sediment

Sediment/ Surface Water Sampling Form

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...ling the Nation in Customer Care

Sample No.: Site: SD-18 & SR Project No.: C-1727 **Date:** 06/12/06

Sampling Method: Sediment

Weather Conditions: 70°F Cloudy

Surface Water

Time	Depth of Water Column (D.T.W.)	Depth to Bottom (D.T.B.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)

Sediment

Time	Sample Interval (ft)		Description							
10:30										

Comments: Brown clay silt w/ heavy veg. surrounding sample point. No water present but soil was damp.

Sediment/ Surface Water Sampling Form

ENTACT
ing the Nation in Customer Care

Sample No.: Site: SD-16 Project No.: C-1727 Date: 06/12/06

Sampling Method: Sediment sample

Weather Conditions: 70°F cloudy

Surface Water

Time	Depth of Water Column (D.T.W.)	Depth to Bottom (D.T.B.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)

Sediment

Time	Sample Interval (ft)		Description							
10:20										

Comments: Brown clay silt w/ heavy veg. surrounding sample point. No water present but soil was damp

Sediment/ Surface Water Sampling Form

ENTACT
ing the Nation in Customer Care'

Sample No.: Site: SD-15 Project No.: C-4727 Date: 06/12/06

Sampling Method: Sediment

Weather Conditions: 70°F Cloudy

Surface Water

Time	Depth of Water Column (D.T.W.)	Depth to Bottom (D.T.B.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)

Sediment

Time	Sample Interval (ft)		Description							
10:15										

Comments: Brown clay silt w/ heavy ves. Surrounding sample point. No standing water but soil was damp

Sediment/ Surface Water Sampling Form

ENTACT
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Sample No.: Site: SD-14 Project No.: C-1727 Date: 06/12/06

Sampling Method: Sediment sample

Weather Conditions: 70°F Cloudy

Surface Water

Time	Depth of Water Column (D.T.W.)	Depth to Bottom (D.T.B.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)

Sediment

Time	Sample Interval (ft)		Description							
10:18										

Comments: Brown clay silt w/ heavy veg. surrounding sample point. No water present but soil was damp.

Sediment/ Surface Water Sampling Form

ENTACT
...ding the Nation in Customer Care

Sample No.: Site: SD-17 & SW-17SR Project No.: C-1727 Date: 06/12/06

Sampling Method: Surface water & Sediment sampling

Weather Conditions: 70°F Cloudy

Surface Water

Time	Depth of Water Column (D.T.W.)	Depth to Bottom (D.T.B.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
10:50			7.8	545	19.13	clear	N		6.22	

Sediment

Time	Sample Interval (ft)		Description							
10:40										

Comments: water was clear w/ slight flow. Heavy vegetation around creek. Sediment was brown w/ sandy / small stones throughout.

Sediment/ Surface Water Sampling Form

ENTACT
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Sample No.: Site: SD-21 Project No.: C-1727 Date: 06/12/06

Sampling Method: Surface Water & Sediment Sampling

Weather Conditions: Cloudy 70°F

Surface Water

Time	Depth of Water Column (D.T.W.)	Depth to Bottom (D.T.B.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
9:00			7.72	430	19.61	charcoal	N		1.03	

Sediment

Time	Sample Interval (ft)		Description							
9:02										

Comments: Water murky w/ some floating vegetation a slight sheen/oily substance on surface of water. Sediment was black & mucky w/ an earthy/decompositon odor.

Sediment/ Surface Water Sampling Form

ENTACT
ing the Nation in Customer Care

Sample No.: Site: SD-12 & SW-12 Project No.: C-1727 **Date:** 06/12/06

Sampling Method: Surface water & Sediment sampling

Weather Conditions: 75°F sunny

Surface Water

Time	Depth of Water Column (D.T.W.)	Depth to Bottom (D.T.B.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
~~12:20~~			~~7.6~~	659	20.96	N	N		10.02	
1545			7.8	605	22.29	LIGHT TAN	N			

Sediment

Time	Sample Interval (ft)		Description							
~~12:24~~										
1550	0.5'	SD-12-0.5 & SD-12-0.5-FD								

Comments: Surface water was clear w/ ~~RAPID~~ movement. Sediment was a brown sandy silt. Heavy veg. around sampling location. FIELD DUPLICATE SAMPLES FOR SEDIMENT & SURFACE WATER COLLECTED

Sediment/ Surface Water Sampling Form

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Sample No.: Site: SD/SW-20&22 Project No.: C1727 Date: 6/13/06

Sampling Method: SEDIMENT / SURFACE WATER COLLECTION

Weather Conditions: SUNNY 85°

Surface Water

Time	Depth of Water Column (D.T.W.)	Depth to Bottom (D.T.B.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
0855	–	–	7.6	490	20.40°C	LIGHT TAN	N		7.96	
0925	–	–	7.38	500	21.45°C	LIGHT TAN	N		3.25	

SW-20 & SW-20-FD COLLECTED AT 0855
SW-22 COLLECTED AT 0925

Sediment

Time	Sample Interval (ft)		Description							
0905	SD	-20-0.5								
	SD	-20-0.5-FD								

0932 SD-22-0.5

Comments: SLOW MOVING SURFACE WATER. FIELD DUPLICATE COLLECTED AT SD/SW-20. COLLECTED SAMPLES ON EAST SIDE OF CHANNEL.
STILL WATER AT SD/SW-22. COLLECTED SAMPLES ON WEST SIDE OF CHANNEL.

PHOTO: ~~182~~ 100-6242

6/28/06 Sheet 1 of 1

ENTACT
The Nation in Customer Care

6.28.06 ~~Well Purging and Ground Water Sampling~~ Surface Monitoring Form

~~Well~~ No.: ~~SD-06~~ Sed Sample (RE) Site: Fairmont City RIFS Project No.: C-1727

Purging Method: ☐ Pumped ☐ Bailed ☐ Micropurge ☒ Other: R.R/J.A.S

Pump Type: _____ Bailer Type: _____

Weather Conditions: 78° sunny

Volume Calculations: _____

D.T.B. - D.T.W. x gal./ft. = Gals./well vol.)

Gals./well vol. X 3 = Total Volume to be removed) Gals./well vol.: _____

ID

Time	~~Depth to Water~~ (D.T.W.)	Depth to Bottom (D.T.B.)	Volume Removed (gal.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
0825	SD·06	(RE) ~~X~~ 1.8		7.2	292	22.82				1.72	-159.8
0910	SD·01	.82-1.3		7.22	213	19.87				1.19	-119.4
0950	SD·05	0.5		7.21	294	22.40				5.03	-13.1
1025	SD·08			7.73	274	23.61				5.11	-38.5
1130	SD·CT·34			6.85	871	27.41				0.54	-196.3
1155	SD·36			6.78	671	23.05				6.36	-134.6
		Final Sample Readings									

Comments: _____

Well I.D.	Gallons/ft
1"	0.04
1.25"	0.06
2"	0.16
4"	0.65

Blank Taken ☐ Time: _____

Well Duplicate ☐ No.: _____

Signature: _____

Date: _____

Air Monitoring

Location	Hnu/PPM	LEL %	0_2 %	H_2S/PPM	CO/PPM

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Sediment/ Surface Water Sampling Form

Sample No.: SW/SD-06 Site: Fairmont City RI FS Project No.: Date: 6/28/06

Sampling Method: YSI readings

Weather Conditions: 78° Sunny

Surface Water

Time	Depth of Water Column (D.T.W.)	Depth to Bottom (D.T.B.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
0825	1.8		7.2	292	22.82				1.72	-159.8

Sediment SD-CT-06

Time	Sample Interval (ft)		Description							
0835	0.0-0.5									

Comments:

SD-CT-06 collected @ 0835 - 3, 1-gallon resealable bags for hioassay.
YSI readings originally recorded on well Form - Sheet 1 of 7 for 6/28/06

GTS

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ing the Nation in Customer Care

Sediment/ Surface Water Sampling Form

Sample No.: SW/SD-01 Site: Fairmont City RIFS Project No.: Date: 6/28/06

Sampling Method: YSI readings

Weather Conditions: 98° Sunny

Surface Water

Time	Depth of Water Column (D.T.W.)	Depth to Bottom (D.T.B.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
0910		.8-1.3	7.22	213	19.87			•	1.19	-119.4

Sediment SD-CT-01 (1 gal)

Time	Sample Interval (ft)		Description							
	0.0-0.5									

Comments: SD-CT-01 collected @ 0915 - 3, 1 gallon resealable bags for bioassay.
YSI readings originally recorded on Well Form - Sheet 1 of 7 for 6/28/06 JMB

Sediment/ Surface Water Sampling Form

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Sample No.: SW/SD-05 Site: Fairmont City RI FS Project No.: Date: 6/28/06 Sheet 4 of 7

Sampling Method: YSI readings

Weather Conditions: 78° sunny

Surface Water

Time	Depth of Water Column (D.T.W.)	Depth to Bottom (D.T.B.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
0950		0.5	7.21	294	22.40				5.03	-13.1

Sediment SD-CT-05

Time	Sample Interval (ft)		Description							
1000	0.0 - 0.5'									

Comments: SD-CT-05 – 3, 1 gallon resealable bags for bioassay
YSI Readings originally recorded on well form - Sheet 1 of 7 for 6/28/06

JAB

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ing the Nation in Customer Care

Sediment/ Surface Water Sampling Form

SW/SD-08

Sample No.: Site: Parmut City RIFS Project No.: Date: 6/28/06

Sheet 5 of 7

Sampling Method: YSI readings

Weather Conditions: 78° Sunny

Surface Water

Time	Depth of Water Column (D.T.W.)	Depth to Bottom (D.T.B.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
1025			7.73	274	23.61				5.11	-38.5

Sediment SD-CT-08

Time	Sample Interval (ft)		Description							
1045	0.0-0.6'									

Comments:

SD-CT-08 - 3, 1 gallon resealable bags for hydrocarbon analysis
YSI readings originally recorded on wall form - Sheet 1 of 7 for 6/28/06

GAB

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Sediment/ Surface Water Sampling Form

SW/SD.34

Sample No.: Site: Fremont City Project No.: Date: 6/28/06

Sheet 6 of 7

Sampling Method: YSI readings

Weather Conditions:

Surface Water

Time	Depth of Water Column (D.T.W.)	Depth to Bottom (D.T.B.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
1130			6.85	871	27.41		Y		0.54	-196.3
1530	SW-34 & SW 34-D									

Sediment SD-34 & SD-34-D

Time	Sample Interval (ft)		Description							
~~1530~~ 1540	0.0-0.5						sulfide, anoxic '07			
~~1535~~							septic odor			

Comments: SD-CT-34 collected @ 1540 - 3, 1 gallon resealable bags, for bioassay. Duplicate samples of SW-34 & ~~SD-3~~ SD-34 also collected. Sed dup collected in stainless steel bowl & homogenized prior to placement in lab containers

YSI readings originally recorded on well form - Sheet 1 of 7 for 6/28/06

JLB

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Sediment/ Surface Water Sampling Form

Sample No.: SW/SD-36 Site: Parent City Project No.: Date: 6/28/06 Sheet 7 of 7

Sampling Method: YSI readings

Weather Conditions: Sunny

Surface Water

Time	Depth of Water Column (D.T.W.)	Depth to Bottom (D.T.B.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
1153	-		6.78	671	23.05				6.36	-139.6

Sediment SD-5 gtb

Time	Sample Interval (ft)		Description							

Comments: Original YSI readings recorded on wall form - Sheet 1 of 7 for 6/28/06

Additional YSI readings + sample collection w/o on 6/29/06 form for SW/SD-36 gtb 6/29/06

Sediment/ Surface Water Sampling Form

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Sample No.: Site: SW/SD-36 Project No.: Date:

W discharge to Schoonenbay Creek

Sampling Method:

Weather Conditions: Sunny ~80°F, calm

Surface Water

Time	Depth of Water Column (D.T.W.)	Depth to Bottom (D.T.B.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
0825	0.8-1.0'		6.77	578	21.85				1.36	-47.1
0920*			7.15	416	22.62				2.73	-139.9

Sediment

Time	Sample Interval (ft)		Description							
0835	0-0.5	SW-036								
0840	0.05	SW-CT-036								

Comments: SW-036 - 3 pdmg glass @ 0830
SD-036 - 1 4oz glass @ 0835 gls
SD-CT-036 3 - 1 gallon ziplocs @ 0840

*0920 reading recorded on this sheet were from location SW-37.

Rev 1/99

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Sediment/ Surface Water Sampling Form

ENTACT
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Sample No.: Site: SW/SD-37 Project No.: Date: 6/29/09

Downstream of W. discharge to Schoenbergen Creek

Sampling Method: YSI / surface water grab / sed grab w/ extended wand)

Weather Conditions: Sunny ~85 calm

Surface Water

Time	Depth of Water Column (D.T.W.)	Depth to Bottom (D.T.B.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
0920*	0.7-0.8'		7.15	416	22.62			2.73	~~-139.9~~ 9.16	-139.9

Sediment

Time	Sample Interval (ft)		Description							
09										

Comments: * readings for this location originally made on form for location SW/SD-36. JdB

SW-037 - 3 poly @ 0920
SD-037 - 1 4oz @ 0925

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Sediment/ Surface Water Sampling Form

SW/SD 13 Offset 400' to east - location 4

Sample No.: Site: _____ Project No.: _____ **Date:** 6/30/06

Sampling Method: YSI readings

Weather Conditions: P Cloudy, ~80°F, calm, humid

Surface Water

Time	Depth of Water Column (D.T.W.)	Depth to Bottom (D.T.B.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
									3.39	53.6
0830		0.5-1.0	7.78	669	20.62				5.46	56.0

Sediment

Time	Sample Interval (ft)		Description							
	0.0-0.5									

Comments: YSI reading & bioassay sample SD-CT-13 collected at W bank of pool approx. 40, 70' long, ~400' east of original SD/SW-13 location. Trowel & SS bowl decon'd prior to sampling - rinsate blank SD-CT-13-RB collected @ 0805. ORP never stabilized after ~2 minutes, very slowly decreasing. All other parameters stabilized.

JTB

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Sediment/ Surface Water Sampling Form

Sample No.: Site: SD-01-R Project No.: **Date:** 12/13/06

Sampling Method: Grab (Trowel)

Weather Conditions: Clear ~ 55°F

Surface Water

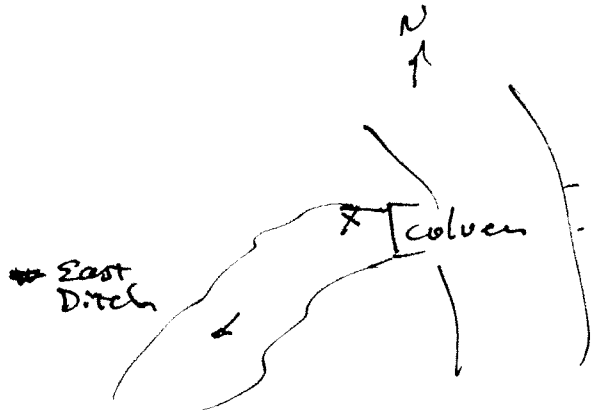
Time	Depth of Water Column (D.T.W.)	Depth to Bottom (D.T.B.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)

Sediment

Time	Sample Interval (ft)		Description							
1550	0.0-0.5	mat of dead veg over sampled sed. Sed dk gray dark gray silty clay, much rts no odor								

Comments: Steffenson

Sampled for TOC & Grain Size Dist
1 4oz + 1 baggie ~½ gallon



Sediment/ Surface Water Sampling Form

ENTACT
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Sample No.: Site: SW 38 Project No.: **Date:** 12/12/06

Sampling Method: Grab

Weather Conditions: 0855 - overcast ~50° 1110 p cloudy ~55°F

Surface Water

Time	Depth of Water Column (D.T.W.)	Depth to Bottom (D.T.B.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
0853	4½"		6.9	1.726	3.0	clear			0.0	228.9
1110	4½"		7.17	1.770	4.64	clear			137	163.3

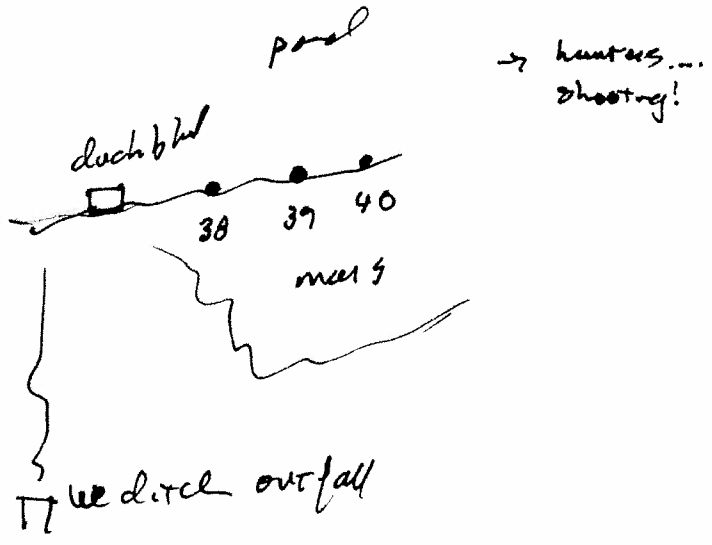
Sediment

Time	Sample Interval (ft)		Description							
1115	0.0-0.5	Decaying Plant material w/ dark olive gray muck								

Comments: sampled surf water @ 1110

sediment sampled @ 1115

Carlson & Stoffregen



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Sediment/ Surface Water Sampling Form

Sample No.: Site: SD-38-R Project No.: **Date:** 12/13/01

Sampling Method: _____

Weather Conditions: _____

Surface Water

Time	Depth of Water Column (D.T.W.)	Depth to Bottom (D.T.B.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
1										

Sediment

Time	Sample Interval (ft)		Description							
1500	0.0-0.5'		Decaying plant mat w/ dark brn gray silty mud							

Comments: Resampled SD-38 location for grain size distribution + TOC
(1) 4 oz + 2 quart baggies

Stellmach

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Sediment/ Surface Water Sampling Form

Sample No.: Site: SW 39 Project No.: **Date:** 12/12/06

Sampling Method: Grab

Weather Conditions: 0905 - cloudy 50° 1120 - p sunny ~~48~~ ~~50~~ 55°F

Surface Water

Time	Depth of Water Column (D.T.W.)	Depth to Bottom (D.T.B.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
0905	6"		6.66	1.950	5.2	Clear			0.0	209.7
1115	6"		7.00	1.868	7.05	clear			125.6	187.8

Sediment

Time	Sample Interval (ft)		Description							
1120 pic	0.0-0.5		Decaying plant material w/ dark olive gray mud							

Comments: see notes for SW 38
Surface water sampled at 1120
Sediment collected 1125
Carlson & Stoffregen

Sediment/ Surface Water Sampling Form

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Sample No.: Site: SW-40 Project No.: **Date:** 12/12/06

Sampling Method: Grab

Weather Conditions: 0910 - overcast ~50° F 1130 p cloudy ~55° F

Surface Water

Time	Depth of Water Column (D.T.W.)	Depth to Bottom (D.T.B.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
0912		4 1/2	6.77	1.923	5.62	clear			0.0	167.9
~~1130~~ 1130		4 1/2	5.58	2.093	8.28	Cloudy			120.0	177.9

Suspect Rdgs
Use initial Rdg @ P.T.

Sediment

Time	Sample Interval (ft)		Description							
1135	0.0 - 0.5	Decaying organic/plant material w/ fine dark grey fine silty mud								

Comments: See notes for SW-38

Surface water sampled @ 1130
Sediment sampled @ 1135

Carlson + Stoffregen

Sediment/ Surface Water Sampling Form

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Sample No.: Site: SW41 Project No.: **Date:** 12/12/06

Sampling Method: grab

Weather Conditions: Mostly Sunny, ~60°F

Surface Water

Time	Depth of Water Column (D.T.W.)	Depth to Bottom (D.T.B.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
1343	1.5'		7.0	1.004	6.26	clear	NO	NO	99.7	129.6

Sediment

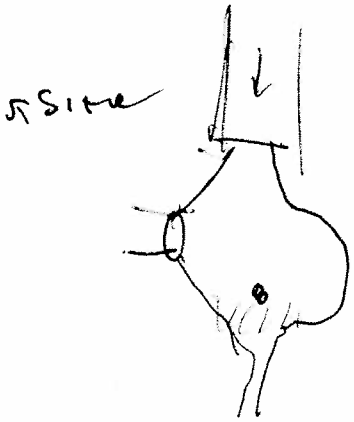
Time	Sample Interval (ft)		Description						
1350	0.0-0.5	decaying plant matter & dark gray muck, stones/gravel							

Comments:

Surf water sampled 1345 - Duplicate collected

Sed sampled 1350 - Duplicate collected

SW corner of site - pool @ confluence of W ditch & rose creek



Sediment/ Surface Water Sampling Form

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Sample No.: Site: SD-41-N Project No.: **Date:** 12/13/06

Sampling Method: Grab (Trowel)

Weather Conditions: Clear ~55°F

Surface Water

Time	Depth of Water Column (D.T.W.)	Depth to Bottom (D.T.B.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)

Sediment

Time	Sample Interval (ft)		Description							
1605		Decay	Plant	material +		clay	gray			
		mach,	straw,	gravel.						

Comments: Stoffenah

Sampled for TOC + Grain Size Dist
(1) 4oz + (1) baggie ~ ⅓ gallon

Sediment/ Surface Water Sampling Form

ENTACT
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Sample No.: Site: SW 42 Project No.: **Date:** 12/12

Sampling Method: Grab

Weather Conditions: most sunny ~60°F

Surface Water

Time	Depth of Water Column (D.T.W.)	Depth to Bottom (D.T.B.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
1400	~3"		7.04	.826	11.04	clear	NO	NO	91.6	148.3

Sediment

Time	Sample Interval (ft)		Description
1405	0.0-0.5	Decaying plant material + dark gray mesh	

Comments:

Surf water sampled 1400
Sediment sampled 1405

Carlson + Stefferalu

/ Between SW corner and former PT SD-11
Next to Tavern in rear area W of site.
Much refuse, floating debris in water

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Sediment/ Surface Water Sampling Form

Sample No.: Site: SW 34 43 Project No.: **Date:** 12/12/06

Sampling Method: Grab

Weather Conditions: 0945 – overcast ~50 1440 Clear ~60°F

Surface Water

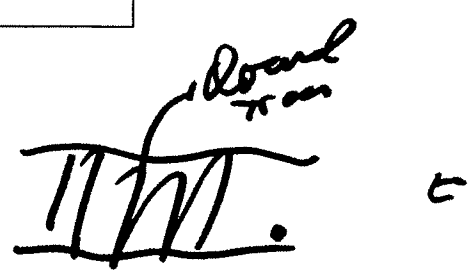
Time	Depth of Water Column (D.T.W.)	Depth to Bottom (D.T.B.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
0945	~8"		7.70	0.903	7.00	turbid			0.0	151.0
1440	"		7.[illegible] 60	.870	7.85	"			37.8	74.8

Sediment

Time	Sample Interval (ft)		Description
1445	0.0-0.5		Olive grey silty muck w/ some decaying plant material.

Comments: Carlson & Stoffregen
Surface water sampled @ 1440
Sediment sampled @ 1445

North 719288.3
East 2130659.1
Elev 409.9



No disc flow
Turbid

Rev. 1/99

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Sediment/ Surface Water Sampling Form

Sample No.: Site: 44 ~~gw-35~~ Project No.: **Date:** 12/12/06

Sampling Method: Grab

Weather Conditions: 0954 - Overcast ~50°F 1450 clear ~60°F

Surface Water

Time	Depth of Water Column (D.T.W.)	Depth to Bottom (D.T.B.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
0954			7.83	.893	7.7	sl turbid			11.9	136.3
1450	collection, no readings									

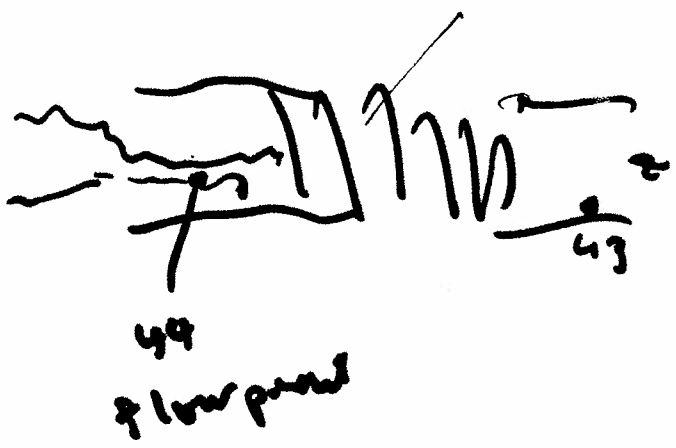
Sediment

Time	Sample Interval (ft)		Description						
1452		dark olive gray ~~gr~~ sandy silty sand w/ leaves							

Comments: Carlson & Steffenhagen

Sanfax orally sampled @ 1450
Sediment sampled @ 1452

N 719326.1
E 2310586.5
El 904.7



Sediment/ Surface Water Sampling Form

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Sample No.: Site: SW-0845 Project No.: **Date:** 12/12/06

0845

Sampling Method: Grab

Weather Conditions: Pclouding ~ 55°F @ 1100 Overcast 50°F @ 0845

Surface Water

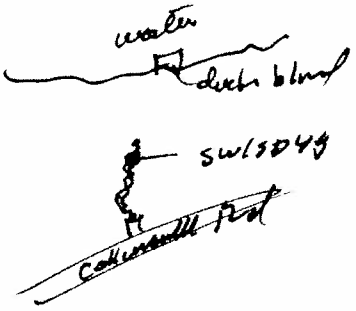
Time	Depth of Water Column (D.T.W.)	Depth to Bottom (D.T.B.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
0845	~3"		6.68	1.440	9.94	clear	N		0.0	267.2
1100	surf								84	

Sediment

Time	Sample Interval (ft)		Description							
1105	0.0-0.5		light grey overlying yellowish silty clay							
				Silty clay (SM)						

Comments: Surf water sampled 1100
Sediment sampled 1105
Carlson + Stoffenden

channel in wet meadow downstream of W Ditch outfall. Approx mid way between outfall & pond



Sediment/ Surface Water Sampling Form

ENTACT
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Sample No.: Site: SD 46, 47, 48 Project No.: **Date:** 12/13/06

Sampling Method: _____

Weather Conditions: _____

Surface ~~Water~~ SED

Time	Depth of Water Column (D.T.W.) Interval	Depth to Bottom (D.T.B.) Description	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	~~Dissolved~~ Oxygen (mg/L)	~~ORP~~ (mV)
1431	0.0-0.5	SD46	vd grey, sl ty loam + decaying plant material						v moist	
1437	0.0-0.5	SD47	"	"	"		"	"	sat	

Sediment

Time	Sample Interval (ft)		Description							
1448	0.0-0.5	SD48	vd grey sl ty clay some decaying plant mat						d moist	

Comments: _____

46 - moist. wet soils w/ moss. no std water

47 - wet "stinky water"

48 cattails & tree seedlings ~1 d leaf mat over soils.

Sediment/ Surface Water Sampling Form

ENTACT
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Sample No.: Site: OAZ Fairmont City Project No.: C1727 **Date:** 7/17/07

JAS/MEC

Sampling Method: sediment core sampler

Weather Conditions: overcast, 90s, windy, dry

Surface Water

Time	Depth of Water Column (D.T.W.)	Depth to Bottom (D.T.B.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)

Sediment T-WDI-N

Time	Sample Interval (ft)		Description	See below						
1030	0-8"									

Comments:

6-8" gray/brown cohesive organic, silty clay, iron staining (rust-colored nodules

0-6" gray/brown silty clay, iron nodules, organics, soft, sat.

0-1" organics, wood

Sediment/ Surface Water Sampling Form

ENTACT
...ding the Nation in Customer Care

Sample No.: Site: OAZ Fairmont Project No.: C127 **Date:** 7/17/07
JAS/MEC

Sampling Method: Sed. ~~Samp~~ core sampler

Weather Conditions: overcast, windy, dry, 90s

Surface Water

Time	Depth of Water Column (D.T.W.)	Depth to Bottom (D.T.B.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)

Sediment T-WD1-C

Time	Sample Interval (ft)		Description See below							
1105	0-10"									

Comments: strong decaying odor (organic) @ 0-4"

0-4" black, loose organic, soft, strong organic odor

4-6" gray/brown silty clay

6-10" gray/brown silty clay, cohesive, organic, iron nodules, very wet

Sediment/ Surface Water Sampling Form

ENTACT
...ing the Nation in Customer Care

Sample No.: Site: OA2 Fairmint Project No.: C127 **Date:** 7/17/07
JAS/MEC

Sampling Method: sed core sampler

Weather Conditions: overcast, dry, humid,

Surface Water

Time	Depth of Water Column (D.T.W.)	Depth to Bottom (D.T.B.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)

Sediment T-WD1-S

Time	Sample Interval (ft)		Description see below							
1125	0-9.5"									

Comments:

0-6.5" brown, olive, sand, very fine, sat., wood fragments

6.5-9.5" gray/brown silty clay

Sediment/ Surface Water Sampling Form

ENTACT
...ding the Nation in Customer Care

Sample No.: Site: ~~SD-38~~ (RW) SW-38 Project No.: C1727 Date: 7/18/07
Fairmont-OAZ
Wetland
RW | RR

Sampling Method: Surface H2O

Weather Conditions: 90°F Partly Cloudy Humid Slight wind

Surface Water

Time	Depth of Water Column (D.T.W.)	Depth to Bottom (D.T.B.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
0949	0.7'		7.15	1.318	26.27	Yellowish Brown	Y		10.12	54.40

Sediment

Time	Sample Interval (ft)		Description							

Comments: At 0915 - Calibration of YSI - RR.
Wetland Area

W

Sediment/ Surface Water Sampling Form

ENTACT
...ling the Nation in Customer Care

Sample No.: Site: Fairmont - OAZ Project No.: (1172) **Date:** 7/18/07
~~SD-0[illegible]~~ SW-39 (wetland) RW/RR

Sampling Method: Surface H_2O

Weather Conditions: 90°F Partly Cloudy Wind NW 0-5mph Humid

Surface Water

Time	Depth of Water Column (D.T.W.)	Depth to Bottom (D.T.B.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
									7.90	
1005	0.6'		7.18	1.320	26.22	Yellowish Brown	Y		9.72	-186.70
1007	0.6'		7.15	1.319	26.37	Yellowish Brown	Y		6.40	-346.90

Sediment

Time	Sample Interval (ft)		Description							

Comments: Wetland Area

Sediment/ Surface Water Sampling Form

ENTACT
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Sample No.: Site: Fairmont - OA2 Project No.: C1727 Date: 7/18/07
SW-40 ~~SD-40~~ SD-40 (wetland)
RW IRR

Sampling Method: Surface H_2O

Weather Conditions: 90°F Mostly sunny slight winds from NNW humid

Surface Water

Time	Depth of Water Column (D.T.W.)	Depth to Bottom (D.T.B.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
1024	0.8'		7.09	1.305	25.65	Yellowish brown	Y		2.30	-266.5

Sediment

Time	Sample Interval (ft)		Description							

Comments: Wetland Area

Sediment/ Surface Water Sampling Form

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Sample No.: Site: Fairmont - OA7 Project No.: C1727 Date: 7/19/07
SW-41 ~~SD-41~~ (RW) *Duplicate* (pool) RW/RR

Sampling Method: Surface H2O

Weather Conditions: 80° F Mostly cloudy Humid Windy Slight

Surface Water

Time	Depth of Water Column (D.T.W.)	Depth to Bottom (D.T.B.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
0910	1.2'		7.09	0.488	25.42	Clear	N		7.35	92.00

Sediment

Time	Sample Interval (ft)		Description							

Comments: 0845 - Calibration of YSI - RW

Field Duplicate Taken - Pool

Sediment/ Surface Water Sampling Form

RW/RR

ENTACT
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Sample No.: Site: Fairmont - OAZ Project No.: 0727 **Date:** 7/18/07

~~SD-42~~ (RW)
SW-42

* Too Dry, NO Surface H_2O Present *

Sampling Method: Surface H_2O

Weather Conditions:

Surface Water

Time	Depth of Water Column (D.T.W.)	Depth to Bottom (D.T.B.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)

Sediment

Time	Sample Interval (ft)		Description							

Comments: Swale was dry, No surface H_2O present
Sediment in Channel was moist

Sediment/ Surface Water Sampling Form

ENTACT
...ing the Nation's in Customer Care

Sample No.: Site: Fairmont – OAZ Project No.: 4727 **Date:** 7/18/07
SW-43 ~~SD-43~~ (RN) (stream)
RN/RR

Sampling Method: Surface H2O

Weather Conditions: 90°F Mostly Sunny Ø Wind Humid

Surface Water

Time	Depth of Water Column (D.T.W.)	Depth to Bottom (D.T.B.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
1134	0.5'		8.08	0.382	24.99	clear	N		12.32	-40.7

Sediment

Time	Sample Interval (ft)		Description							

Comments: Stream

Sediment/ Surface Water Sampling Form

ENTACT
...ing the Nation in Customer Care

Sample No.: Site: ~~Fairmont - OA7~~ SW-44 ~~SD-044~~ (stream) Project No.: C1727 Date: 7/18/07 RD/RR

Sampling Method: Surface H2O

Weather Conditions: 90°F Mostly Sunny Humid Ø wind

Surface Water

Time	Depth of Water Column (D.T.W.)	Depth to Bottom (D.T.B.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
~~1354~~ 1430	0.4'		7.04	0.418	24.24	clear	N		5.28	-4.30

Sediment

Time	Sample Interval (ft)		Description							

Comments: Stream

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Sediment/ Surface Water Sampling Form

Sample No.: Site: Fairmont City - RIFS Project No.: C172 **Date:** 7-19-07

SW-MC-3-S

Sampling Method: _____

Weather Conditions: overcast 90° windy ↑ humidity

Surface Water

Time	Depth of Water Column (D.T.W.)	Depth to Bottom (D.T.B.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
1315		0.40'	6.73	0.876	27.65				1.81	-238.2

Sediment

Time	Sample Interval (ft)		Description							

Comments: _____

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...ing the Nation in Customer Care

Sediment/ Surface Water Sampling Form

Sample No.: Site: Fairmont City RIFS Project No.: C1727 **Date:** 7·19·07

Sampling Method: SW·52

Weather Conditions: overcast 90° windy & humidity

Surface Water

Time	Depth of Water Column (D.T.W.)	Depth to Bottom (D.T.B.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
1340		0·5'	7.97	0.570	30.61				10.71	-57.7

Sediment

Time	Sample Interval (ft)		Description							

Comments:

ENTACT
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Sediment/ Surface Water Sampling Form

Sample No.: Site: Fairmont City RIFS Project No.: C1727 **Date:** 7.19.07

Sampling Method: SW.50

Weather Conditions: overcast 90° windy ↑ humidity

Surface Water

Time	Depth of Water Column (D.T.W.)	Depth to Bottom (D.T.B.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
1500		0.65'	7.59	0.901	29.06				3.01	-91.5

Sediment

Time	Sample Interval (ft)		Description							

Comments:

APPENDIX C-4

WELL CONSTRUCTION AND DEVELOPMENT LOGS

ENTACT
the Nation in Customer Care

Well Development
(Must Have Well Construction Diagrams)

Well No. MW-01

Date: 06/22/06

Mon. Tues. Weds. (Thurs.) Fri.

Site: AZRIFS

Weather: 90's, sunny, humid

Project No.: C-1727

Development Method: Pumped ☑ Bailed ☐ Other: _____

Pump Type: GeoSquirt & GeoPump2

Bailer Type: _____

Volume Calculation: (24-17.58)x 0.16 = 1.0272 x 5 = 5.136

(D.T.B. – D.T.W. x vol./ft. = PVC/well volume) + (N* x H* x Annulus vol./ft.) = Total Well Volume

* (Wells that cannot be purged dry, 10x's the Total Well Volume must be purged)
(Wells that can be purged dry, slowly removing water, without surging until dry)

Time	Depth to Water (D.T.W.)	Depth to Bottom (D.T.B.)	Volume Removed (gal.)	pH	Cond.	Temp.	Color	Odor Y/N	Turbidity	D.O.	ORP
1232	17.58'	24'	3.75	Removed with GeoSquirt @ 1240							
1246			≈4	6.82	1135	17.8	little cloudy brown	N	Yes	2.06	28
1248			4.2	6.83	1128	17.46	translucent light brown tint	N	Yes	1.13	-19.6
1249			≈4.4	6.83	1120	17.48	"	N	Yes	1.06	-24.2
1250			4.5	6.83	1117	17.44	"	N	Yes	0.94	-33.4
1251			4.6	6.82	1117	17.32	"	N	Yes	0.88	-38.8
1252			4.7	6.83	1110	17.22	"	N	Yes	0.82	-45.3
1253			4.9	6.83	1103	17.32	"	N	Yes	0.78	-50.6
1253			≈4.9	6.83	1100	17.47	"	N	Yes	0.75	-55
1254			5	6.84	1099	17.52	"	N	Yes	0.72	-58.

Comments: _____

*N = porosity of filter pack
*H = length of filter pack or length of saturated filter pack (water level within screen length)
* = A 30–minute surge and purge before the 10x's the Total Well Volume

Annulus	vol./ft.
4"	0.42
6"	1.24
8"	2.38
10"	3.85

Inside Diameter	vol./ft.
1"	0.04
1.25"	0.06
2"	0.16
4"	0.65

HNu/PPM	LEL/%	O2/%	H2S/PPM	CO/PPM	

Signature: Heather Alcorn

ENTACT
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Well Development
(Must Have Well Construction Diagrams)

Well No. MW-02

Date: 06 / 20 / 06
Mon. (Tues.) Weds. Thurs. Fri.

Site: AERIFS Fairmont City, IL
Weather: 90's, sunny
Project No.: C-1727
Development Method: Pumped ☑ Bailed ☐ Other:
Pump Type: GeoPump 2
Bailer Type:
Volume Calculation: (24.11 - 18.96) x 0.16 = 0.824 x 5 = 4.12

(D.T.B. – D.T.W. x vol./ft. = PVC/well volume) + (N* x H* x Annulus vol./ft.) = Total Well Volume
* (Wells that cannot be purged dry, 10x's the Total Well Volume must be purged)
(Wells that can be purged dry, slowly removing water, without surging until dry)

Time	Depth to Water (D.T.W.)	Depth to Bottom (D.T.B.)	Volume Removed (gal.)	pH	Cond.	Temp. (°C)	Color	Odor Y/N	Turbidity	
1416	18.96	24.11								
	Removed 3 gallons with GeoPump									
1448			3	6.91	1391	21.9 HA	light cloudy brown	N	Yes	
1451			3.5	6.85	1357	16.2	opaque	N	slight	D.O. 3.34
1452			≈3.5	6.85	1358	16.25	brown tint	N	clearing	D.O. 3.19
1453			≈3.75	6.83	1372	16.0	brown tint	N	clearing	D.O. 3.11
1455			≈3.9	6.82	1420	15.88	brown tint	N		D.O. 2.80
1457			≈4	6.83	1417	15.9	slight brown translucent	N		D.O. 2.88
1458			≈4	6.85	1356	16.14	translucent slight brown	N		D.O. 2.91
1500			≈4.1	6.86	1342	16.01	slight brown tint	N		D.O. 2.97

Comments:

Annulus	vol./ft.	Inside Diameter	vol./ft.
4"	0.42	1"	0.04
6"	1.24	1.25"	0.06
8"	2.38	2"	0.16
10"	3.85	4"	0.65

HNu/PPM	LEL/%	O2/%	H2S/PPM	CO/PPM	

*N = porosity of filter pack
*H = length of filter pack or length of saturated filter pack (water level within screen length)
* = A 30-minute surge and purge before the 10x's the Total Well Volume

Signature: Heather Mann

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Well Development
(Must Have Well Construction Diagrams)

Well No. MW-02

Date: 06 / 20 / 06

Mon. (Tues.) Weds. Thurs. Fri.

Site: AZRIFS

Weather: 90's, sunny

Project No.: C-1727

Development Method: Pumped ☑ Bailed ☐ Other: _____

Pump Type: GeoPump 2

Bailer Type: _____

Volume Calculation: _____

(D.T.B. – D.T.W. x vol./ft. = PVC/well volume) + (N* x H* x Annulus vol./ft.) = Total Well Volume
* (Wells that cannot be purged dry, 10x's the Total Well Volume must be purged)
(Wells that can be purged dry, slowly removing water, without surging until dry)

Time	Depth to Water (D.T.W.)	Depth to Bottom (D.T.B.)	Volume Removed (gal.)	pH	Cond.	Temp. (°C)	Color	Odor Y/N	Turbidity	
1502	~~1602~~ HA.		4	6.86	1318	16.23	brown tint	N		D.O. 2.93
	~~1604~~ HA 1504		4.2	6.86	1293	16.34	brown tint	N		D.O. 2.9
	~~1605~~ HA 1505		4.4	6.87	1264	16.34	translucent brown tint	N		D.O. 2.91
	1506		4.5	6.86	1254	16.37	translucent brown tint	N		D.O. 2.9
	1507		4.6	6.82	1248	16.33	translucent	N		D.O. 2.91

Comments: _____

Annulus	vol./ft.
4"	0.42
6"	1.24
8"	2.38
10"	3.85

Inside Diameter	vol./ft.
1"	0.04
1.25"	0.06
2"	0.16
4"	0.65

*N = porosity of filter pack
*H = length of filter pack or length of saturated filter pack (water level within screen length)
* = A 30-minute surge and purge before the 10x's the Total Well Volume

HNu/PPM	LEL/%	O_2/%	H_2S/PPM	CO/PPM	

Signature: Heather Acorn

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Well Development
(Must Have Well Construction Diagrams)

Well No. MW-03

Date: 6/20/06

Mon. (Tues.) Weds. Thurs. Fri.

Site: AZRIFS

Weather: 90s sunny

Project No.: C-1727

Development Method: Pumped ☒ Bailed ☐ Other: _____

Pump Type: Geo-pump 2

Bailer Type: _____

Volume Calculation: 25.6 - 9.81 x 0.16 = 2.52 x 5 = 12.6

(D.T.B. – D.T.W. x vol./ft. = PVC/well volume) + (N* x H* x Annulus vol./ft.) = Total Well Volume
* (Wells that cannot be purged dry, 10x's the Total Well Volume must be purged)
(Wells that can be purged dry, slowly removing water, without surging until dry)

Time	Depth to Water (D.T.W.)	Depth to Bottom (D.T.B.)	Volume Removed (gal.)	pH	Cond.	(°C) Temp.	Color	Odor Y/N	Turbidity	
	9.81	25.6								
1628		Removed 8 gallons with Geopumps								
1630			8.5	6.21	2876	18.29	brown, opaque cloudy	N	Yes	D.O. 1.61
1652			10	6.23	2796	17.85	translucent	N	Yes grayish tint	D.O. 0.98
1654			10.5	6.23	2769	17.77	translucent	N	Yes gray tint	D.O. 1.05
1656			11	6.23	2758	17.75	translucent	N	Yes gray tint	D.O 1.11
1657			11.5	6.22	2767	17.69	translucent	N	Yes gray tint	D.O. 1.17
1700			11.75	6.25	2809	18.74	translucent	N	Yes grayish tint	D.O. 1.71
1701			11.8	6.25	2810	18.67	translucent	N	Yes	D.O. 1.55
1702			11.9	6.25	2813	18.62	translucent	N	Yes	D.O. 1.48

Comments: _____

*N = porosity of filter pack
*H = length of filter pack or length of saturated filter pack (water level within screen length)
* = A 30–minute surge and purge before the 10x's the Total Well Volume

Annulus	vol./ft.
4"	0.42
6"	1.24
8"	2.38
10"	3.85

Inside Diameter	vol./ft.
1"	0.04
1.25"	0.06
2"	0.16
4"	0.65

HNu/PPM	LEL/%	O_2/%	H_2S/PPM	CO/PPM	

Signature: _____

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Well Development
(Must Have Well Construction Diagrams)

Well No. MW-03

Date: 06/20/06
Mon. (Tues.) Weds. Thurs. Fri.

Site: AZRIFS

Weather: 90's, sunny

Project No.: C-1727

Development Method: Pumped ☑ Bailed ☐ Other: _____

Pump Type: GeoPump 2

Bailer Type: _____

Volume Calculation: _____

(D.T.B. – D.T.W. x vol./ft. = PVC/well volume) + (N* x H* x Annulus vol./ft.) = Total Well Volume
* (Wells that cannot be purged dry, 10x's the Total Well Volume must be purged)
(Wells that can be purged dry, slowly removing water, without surging until dry)

Time	Depth to Water (D.T.W.)	Depth to Bottom (D.T.B.)	Volume Removed (gal.)	pH	Cond.	Temp. (°C)	Color	Odor Y/N	Turbidity	
1703			2	6.25	2816	18.61	translucent	N	Yes gray tint	D.O. 1.34
1704			≈2	6.22	2821	18.66	translucent	N	Yes gray tint	D.O. 1.24
1705			2.1	6.24	2828	18.69	translucent	N	Yes gray tint	D.O 1.19
1706			2.2	6.22	2824	18.93	translucent	N	Yes	D.O. 1.09
1707			2.3	6.25	2831	19.09	translucent	N	Yes	D.O. 1.05
1707			≈2.3	6.24	2838	19.16	translucent	N	Yes	D.O. 1.03
1707			≈2.3	6.24	2838	19.17	translucent	N	Yes	D.O. 1.02

Comments: _____

*N = porosity of filter pack
*H = length of filter pack or length of saturated filter pack (water level within screen length)
* = A 30-minute surge and purge before the 10x's the Total Well Volume

Annulus	vol./ft.
4"	0.42
6"	1.24
8"	2.38
10"	3.85

Inside Diameter	vol./ft.
1"	0.04
1.25"	0.06
2"	0.16
4"	0.65

HNu/PPM	LEL/%	O_2/%	H_2S/PPM	CO/PPM	

Signature: Heather Moore

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Well Development
(Must Have Well Construction Diagrams)

Well No. MW-04

Date: 6/21/06.

Mon. Tues. Weds. Thurs. Fri.

Site: OAZ R1

Weather: Sunny, Hot, Very Humid

Project No.: C1727.

Development Method: Pumped ☒ Bailed ☐ Other: _____

Pump Type: GeoPump II

Bailer Type: _____

Volume Calculation: 22.60 - 18.13 = 4.47 x 0.16 = 0.72 x 5 = 3.60

(D.T.B. – D.T.W. x vol./ft. = PVC/well volume) + (N* x H* x Annulus vol./ft.) = Total Well Volume

* (Wells that cannot be purged dry, 10x's the Total Well Volume must be purged)
(Wells that can be purged dry, slowly removing water, without surging until dry)

start: 0745

Time	Depth to Water (D.T.W.)	Depth to Bottom (D.T.B.)	Volume Removed (gal.)	pH	Cond.	Temp.	Color	Odor Y/N	Turbidity
0845	18.13	22.60	3.0.	6.45	1033	19.98	Colorless	N	Clear
0855			3.5	6.46	1060	18.91	Colorless	N	Clear
0900			4.0	6.53	1043	18.74	Colorless	N	Clear
0906			4.5	6.55	1036	18.87	Colorless	N	Clear
0910	18.25		5.0	6.55	1038	18.85	Colorless	N	Clear

Comments: _____

*N = porosity of filter pack
*H = length of filter pack or length of saturated filter pack (water level within screen length)
* = A 30–minute surge and purge before the 10x's the Total Well Volume

Annuius	vol./ft.
4"	0.42
6"	1.24
8"	2.38
10"	3.85

Inside Diameter	vol./ft.
1"	0.04
1.25"	0.06
2"	0.16
4"	0.65

HNu/PPM	LEL/%	O_2/%	H_2S/PPM	CO/PPM	

Signature: _____

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Well Development
(Must Have Well Construction Diagrams)

Well No. (05)

Date: 06 / 21 / 06
Mon. Tues. (Weds) Thurs. Fri.

Site: AZRIES

Weather: sunny, humid, 80's

Project No.: C-1727

Development Method: Pumped ☑ Bailed ☐ Other: _____

Pump Type: GeoPump 2 and GeoPump 2 H.A. GeoSquirt

Bailer Type: _____

Volume Calculation: (28.51 - 22.48) x 0.16 = 0.9648 x 5 = 4.824

(D.T.B. – D.T.W. x vol./ft. = PVC/well volume) + (N* x H* x Annulus vol./ft.) = Total Well Volume
* (Wells that cannot be purged dry, 10x's the Total Well Volume must be purged)
(Wells that can be purged dry, slowly removing water, without surging until dry)

Time	Depth to Water (D.T.W.)	Depth to Bottom (D.T.B.)	Volume Removed (gal.)	pH	Cond.	(°C) Temp.	Color	Odor Y/N	Turbidity	
0940	22.48'	28.51'								
1009	Began removing water from well									
1012	Poured 1 gallon H_2O into well (2 gallons removed at 1012)									
1020			4 (with GeoSquirt)							
1035			≈4.4	6.62	3176	18.58	opaque brown tint	N	Yes brown tint	D.O. 1.42
1037			4.8	6.61	3189	18.54	cloudy	N	Yes	D.O 3.02
1038			5	6.60	3197	18.67	brown tint	N	Yes	D.O. 2.16
1040			5.25	6.61	3184	8.84	translucent brown tint	N	Yes	D.O. 1.81
1041			5.3	6.61	3189	8.91	translucent brown tint	N	Yes	D.O. 1.76
1042			≈5.35	6.61	3187	18.87	translucent brown tint	N	Yes	D.O. 1.68

2nd use Pump

Comments: _____

Annulus	vol./ft.
4"	0.42
6"	1.24
8"	2.38
10"	3.85

Inside Diameter	vol./ft.
1"	0.04
1.25"	0.06
2"	0.16
4"	0.65

*N = porosity of filter pack
*H = length of filter pack or length of saturated filter pack (water level within screen length)
* = A 30–minute surge and purge before the 10x's the Total Well Volume

HNu/PPM	LEL/%	O2/%	H_2S/PPM	CO/PPM	

Signature: _____

ENTACT
the Nation in Customer Care

Well Development
(Must Have Well Construction Diagrams)

Well No. 05

Date: 06 / 21 / 06
Mon. Tues. Weds. Thurs. Fri.

Site: AZRIFS
Weather: 90, sunny, humid
Project No.: C-1727
Development Method: Pumped ☑ Bailed ☐ Other:
Pump Type: GeoPump 2 & Geo Squirt
Bailer Type:
Volume Calculation:

(D.T.B. – D.T.W. x vol./ft. = PVC/well volume) + (N* x H* x Annulus vol./ft.) = Total Well Volume
* (Wells that cannot be purged dry, 10x's the Total Well Volume must be purged)
(Wells that can be purged dry, slowly removing water, without surging until dry)

Time	Depth to Water (D.T.W.)	Depth to Bottom (D.T.B.)	Volume Removed (gal.)	pH	Cond.	°C Temp.	Color	Odor Y/N	Turbidity
1042			5.4	6.61	3188	18.83	transluscent brownish	N	Yes

D.O. 1.60

Comments:

Annulus	vol./ft.
4"	0.42
6"	1.24
8"	2.38
10"	3.85

Inside Diameter	vol./ft.
1"	0.04
1.25"	0.06
2"	0.16
4"	0.65

*N = porosity of filter pack
*H = length of filter pack or length of saturated filter pack (water level within screen length)
* = A 30–minute surge and purge before the 10x's the Total Well Volume

HNu/PPM	LEL/%	O2/%	H2S/PPM	CO/PPM	

Signature: Heather Adams

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Well Development
(Must Have Well Construction Diagrams)

Well No. 06

Date: 06/22/06
Mon. Tues. Weds. ~~Thurs.~~ Fri.

Site: AZRIFS

Weather: upper 80's, humid, sunny

Project No.: C-1727

Development Method: Pumped ☑ Bailed ☐ Other: _____

Pump Type: GeoSquirt & GeoPump 2

Bailer Type: _____

Volume Calculation: 27-22.06 x 0.16 = 0.7904 x 5 = 3.952

(D.T.B. – D.T.W. x vol./ft. = PVC/well volume) + (N* x H* x Annulus vol./ft.) = Total Well Volume
* (Wells that cannot be purged dry, 10x's the Total Well Volume must be purged)
(Wells that can be purged dry, slowly removing water, without surging until dry)

Time	Depth to Water (D.T.W.)	Depth to Bottom (D.T.B.)	Volume Removed (gal.)	pH	Cond.	Temp.	Color	Odor Y/N	Turbidity	DO ORP
1130	top of casing 22.06'	27'	2 with GeoSquirt @ 1155							GeoPump 2
1209			2.5	6.9	775	17.43	brown tint translucent	N	Yes	2.82 52.1
1211			≈2.7	6.9	772	17.34	"	N	Yes	2.46 43.1
1212			2.75	6.89	769	17.29	"	N	Yes	2.27 34.5
1213			2.8	6.88	769	17.18	clear	N	Yes	2.11 26.8
1214			2.9	6.9	766	17.16	"	N	Yes	1.99 17.6
1215			≈3	6.89	766	17.07	"	N	Yes	1.88 6.2
1216			≈3.1	6.89	766	17.12	"	N	Yes	1.83 1.7
1217			≈3.25	6.9	764	17.24	"	N	Yes	1.73 -3.4
1218			3.3	6.9	765	17.25	"	N	Yes	1.66 -6.8

Comments: _____

*N = porosity of filter pack
*H = length of filter pack or length of saturated filter pack (water level within screen length)
* = A 30-minute surge and purge before the 10x's the Total Well Volume

Annulus	vol./ft.
4"	0.42
6"	1.24
8"	2.38
10"	3.85

Inside Diameter	vol./ft.
1"	0.04
1.25"	0.06
2"	0.16
4"	0.65

HNu/PPM	LEL/%	O_2/%	H_2S/PPM	CO/PPM	

Signature: Heather Moore

CONTACT
Leading the Nation in Customer Care

Well Development
(Must Have Well Construction Diagrams)

Well No. 06

Date: 06/22/06
Mon. Tues. Weds. Thurs. Fri.

Site: AZRIFS
Weather: upper 80's, sunny, humid
Project No.: C-1727
Development Method: Pumped ☑ Bailed ☐ Other:
Pump Type: GeoPump2
Bailer Type:
Volume Calculation:

(D.T.B. – D.T.W. x vol./ft. = PVC/well volume) + (N* x H* x Annulus vol./ft.) = Total Well Volume
* (Wells that cannot be purged dry, 10x's the Total Well Volume must be purged)
(Wells that can be purged dry, slowly removing water, without surging until dry)

Time	Depth to Water (D.T.W.)	Depth to Bottom (D.T.B.)	Volume Removed (gal.)	pH	Cond.	Temp.	Color	Odor Y/N	Turbidity	D.O.	ORP
1219			≈3.5	6.9	765	17.24	clear	N	Yes	1.6	-9.2
1220			≈3.5	6.9	764	17.23	clear	N	Yes	1.46	-13
1222	22.9		≈3.7	6.9	763	17.21	clear	N	Yes	1.39	-16.2

Comments:

Annulus	vol./ft.
4"	0.42
6"	1.24
8"	2.38
10"	3.85

Inside Diameter	vol./ft.
1"	0.04
1.25"	0.06
2"	0.16
4"	0.65

*N = porosity of filter pack
*H = length of filter pack or length of saturated filter pack (water level within screen length)
* = A 30–minute surge and purge before the 10x's the Total Well Volume

HNu/PPM	LEL/%	O_2/%	H_2S/PPM	CO/PPM	

Signature: Heather Horn

ENTACT
...he Nation in Customer Care

Well Purging and Ground Water Sampling Form

Well No.: 07 Site: AZRIFS Project No.: C-1727

urging Method: ☑ Pumped ☐ Bailed ☐ Micropurge ☐ Other: _____

ump Type: GeoSquirt, GeoPump 2 Bailer Type: _____

'eather Conditions: upper 80's, sunny, humid

olume Calculations: (28-21.45) x 0.16 = 1.048 x 5 = 5.24

).T.B. - D.T.W. x gal./ft. = Gals./well vol.)

Gals./well vol. X 3 = Total Volume to be removed) Gals./well vol.: _____

Time	Depth to Water (D.T.W.)	Depth to Bottom (D.T.B.)	Volume Removed (gal.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
1036	21.45'	28'									
1040			4	Removed with	GeoSquirt						
1049			4.5	7.14	727	17.05	brown cloudy	N	Yes	3.9	169.9
1050			≈4.5	7.13	726	17.02	opaque brown tint	N	Yes	3.89	139.1
1051			4.6	7.13	727	16.97	opaque brown tint	N	Yes	4.09	119.1
1052			4.65	7.12	729	16.86	"	N	Yes	4.29	108.8
1053			≈4.7	7.13	730	16.8	"	N	Yes	4.41	98.7
1054			≈4.75	7.1	732	16.95	"	N	Yes	4.49	81.2
1055			4.8	6.9	733	16.94	"	N	Yes	4.62	105.1
1056			4.9	7.16	740	17.46	tan/straw brown tint	N	Yes	6.64	150.2
		Final Sample Readings									

clean cell of YSI

Comments: _____

Well I.D.	Gallons/ft
1"	0.04
1.25"	0.06
2"	0.16
4"	0.65

☐ Blank Taken ☐ Time: _____

Well Duplicate ☐ No.: _____

Signature: Heather Mann

Date: 06 22 06

Air Monitoring

Location	Hnu/PPM	LEL %	0_2 %	H_2S/PPM	CO/PPM

ENTACT
the Nation in Customer Care

Well Purging and Ground Water Sampling Form

Well No.: 07 Site: AZRIFS Project No.: C- 1727

urging Method: ☑ Pumped ☐ Bailed ☐ Micropurge ☐ Other: _____

ump Type: GeoPump 2 Bailer Type: _____

/eather Conditions: upper 80's, humid, sunny

'olume Calculations: _____

D.T.B. - D.T.W. x gal./ft. = Gals./well vol.)

Gals./well vol. X 3 = Total Volume to be removed) Gals./well vol.: _____

Time	Depth to Water (D.T.W.)	Depth to Bottom (D.T.B.)	Volume Removed (gal.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
1100			5	7.12	737	17.28	~~translucent~~ brown tint	N	Yes	~~7.5~~ 5.08 H.A.	132.4
1102			5.2	7.09	738	17.28	"	N	Yes	4.64	115.5
1108			6	7.08	739	17.22	"	N	Yes	4.72	105
1109			6.1	7.07	739	17.23	"	N	Yes	4.71	95.3
1110			6.25	7.07	741	17.22	"	N	Yes	4.75	90
1111			≈6.3	6.96	740	17.33	"	N	Yes	4.76	94
1112			≈6.35	7.06	739	17.37	"	N	Yes	4.7	82.2
1113			6.5	7.07	739	17.28	"	N	Yes	4.74	75.3
1114			6.6	7.07	739	17.25	clear	N	Yes	4.73	69.3
1115			6.75	7.07	737	17.28	"	N	Yes	4.72	65.4
1115	21.59	Final Sample Readings	6.8	7.07	737	17.25	"	N	Yes	4.72	62.1

Comments: _____

Well I.D.	Gallons/ft
1"	0.04
1.25"	0.06
2"	0.16
4"	0.65

Blank Taken ☐ Time: _____

Well Duplicate ☐ No.: _____

Signature: Heather Horn

Date: 06/22/06

Air Monitoring

Location	Hnu/PPM	LEL %	0_2 %	H_2S/PPM	CO/PPM

ENTACT
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Well Purging and Ground Water Sampling Form

Well No.: P-01 Site: OAZRIFS Project No.: C-1727

urging Method: ☑ Pumped ☐ Bailed ☐ Micropurge ☐ Other: _____

ump Type: GeoSquirt & GeoPump 2 Bailer Type: _____

'eather Conditions: 80's, humid, sunny

olume Calculations: 25.62 - 22.12 = 3.5 x 0.16 = 0.56 x 5 = 2.8

).T.B. - D.T.W. x gal./ft. = Gals./well vol.)

Gals./well vol. X 3 = Total Volume to be removed) Gals./well vol.: _____

Time	Depth to Water (D.T.W.)	Depth to Bottom (D.T.B.)	Volume Removed (gal.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
1725	22.12	25.62									
0728			1	with GeoSquirt then switched to GeoPump 2							
							opaque brown	N	Yes		
0742			≈1.5	6.3	634	18.58	transition brown tint	N	Yes	4.57	107.1
0743			1.6	6.3	633	18.54	"	N	Yes	4.34	108.2
0744			1.7	6.3	632	18.48	"	N	Yes	4.04	107.7
0745			1.8	6.29	631	18.49	"	N	Yes	3.6	107
0746			≈2	6.28	630	18.53	"	N	Yes	3.3	106.4
0747			2.1	6.28	629	18.61	"	N	Yes	2.95	105.5
0748			2.3	6.28	629	18.59	"	N	Yes	2.82	1053
		Final Sample Readings									

Comments: _____

Well I.D.	Gallons/ft
1"	0.04
1.25"	0.06
2"	0.16
4"	0.65

☐ Blank Taken ☐ Time: _____

Well Duplicate ☐ No.: _____

Signature: Heather Horn

Date: 06/22/06

Air Monitoring

Location	Hnu/PPM	LEL %	0_2 %	H_2S/PPM	CO/PPM

ENTACT
...the Nation in Customer Care

Well Purging and Ground Water Sampling Form

Well No.: P-01 Site: AZRIFS Project No.: C-1727

...rging Method: ☑ Pumped ☐ Bailed ☐ Micropurge ☐ Other: _____

...ump Type: GeoPump2 Bailer Type: _____

...eather Conditions: 80's, sunny, humid

...olume Calculations: _____

...D.T.B. - D.T.W. x gal./ft. = Gals./well vol.)

...Gals./well vol. X 3 = Total Volume to be removed) Gals./well vol.: _____

Time	Depth to Water (D.T.W.)	Depth to Bottom (D.T.B.)	Volume Removed (gal.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
0749			2.4	6.28	629	18.58	translucent brown tint	N	Yes	2.71	105.2
0750			x2.5	6.27	628	18.57	"	N	Yes	2.68	105.4
0750			25	6.27	626	18.59	"	N	Yes	2.67	1058
0751	23.5		2.6	6.27	626	18.6	"	N	Yes	2.68	106.4
		Final Sample Readings									

Comments: _____

Well I.D.	Gallons/ft
1"	0.04
1.25"	0.06
2"	0.16
4"	0.65

Blank Taken ☐ Time: _____

Well Duplicate ☐ No.: _____

Signature: Heather Moore

Date: 06/22/06

Air Monitoring

Location	Hnu/PPM	LEL %	0_2 %	H_2S/PPM	CO/PPM

ENTACT
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Well Development
(Must Have Well Construction Diagrams)

Well No. P-02

Date: 06/21/06

Mon. Tues. (Weds) Thurs. Fri.

Site: AZRIFS

Weather: 90's, sunny, humid

Project No.: C-1727

Development Method: Pumped ☑ Bailed ☐ Other: _____

Pump Type: GeoSquirt

Bailer Type: _____

Volume Calculation: (30.4 − 24.81) x 0.16 = 0.896 x 5 = 4.48

(D.T.B. – D.T.W. x vol./ft. = PVC/well volume) + (N* x H* x Annulus vol./ft.) = Total Well Volume

* (Wells that cannot be purged dry, 10x's the Total Well Volume must be purged)
(Wells that can be purged dry, slowly removing water, without surging until dry)

Time	Depth to Water (D.T.W.)	Depth to Bottom (D.T.B.)	Volume Removed (gal.)	pH	Cond.	Temp.	Color	Odor Y/N	Turbidity
1148	24.81'	30.41							
1157			2						

Comments: _____

Annulus	vol./ft.
4"	0.42
6"	1.24
8"	2.38
10"	3.85

Inside Diameter	vol./ft.
1"	0.04
1.25"	0.06
2"	0.16
4"	0.65

*N = porosity of filter pack
*H = length of filter pack or length of saturated filter pack (water level within screen length)
* = A 30-minute surge and purge before the 10x's the Total Well Volume

HNu/PPM	LEL/%	O_2/%	H_2S/PPM	CO/PPM	

Signature: _____

ENTACT
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* Well Purging and Ground Water Sampling Form

Well No.: P-02 Site: AZRIFS Project No.: C-1727

-

urging Method: ☑ Pumped ☐ Bailed ☐ Micropurge ☐ Other: _____

ump Type: GeoPump2 Bailer Type: _____

Veather Conditions: 90's, sunny, humid

'olume Calculations: 30.4 − 24.86 = 5.54 × 0.16 = 0.8864 × 5 = 4.432

D.T.B. - D.T.W. x gal./ft. = Gals./well vol.)

Gals./well vol. X 3 = Total Volume to be removed) Gals./well vol.: _____

Time	Depth to Water (D.T.W.)	Depth to Bottom (D.T.B.)	Volume Removed (gal.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
1322	24.86	30.4									
1328			1				opaque brown tint				
1333			1.25	6.45	3004	19.15	opaque brown tint	N	Yes	~~Yes~~ 5.11	31.9
1334			≈1.4	6.46	3010	19.21	opaque brown tint	N	Yes	5.20	23.5
1335			1.5	6.47	3013	19.08	translucent	N	Yes	5.47	17.8
1337			≈1.7	6.46	3010	19.09	translucent brown tint	N	Yes	5.49	13.5
1339			1.8	6.46	3020	19.11	translucent	N	Yes	5.74	11
1340			1.9	6.47	3020	19.08	brown tint	N	Yes	5.74	9.8
1341			2	6.47	3027	19.05	translucent	N	Yes	5.83	9
1341			≈2	6.48	3027	19.08	translucent	N	Yes	5.85	8.7
		Final Sample Readings									

Comments: Removed 2 gallons from well @ ≈1130.

Well I.D.	Gallons/ft
1"	0.04
1.25"	0.06
2"	0.16
4"	0.65

Blank Taken ☐ Time: _____

Well Duplicate ☐ No.: _____

Signature: Heather Alcorn

Date: 06 21 06

Air Monitoring

Location	Hnu/PPM	LEL %	0_2 %	H_2S/PPM	CO/PPM

ENTACT
the Nation in Customer Care

Well Purging and Ground Water Sampling Form

Well No.: P-03 Site: AZRIFS Project No.: C-1727

urging Method: ☑ Pumped ☐ Bailed ☐ Micropurge ☐ Other: _____

ump Type: GeoPump2 Bailer Type: _____

/eather Conditions: 90's sunny humid

'olume Calculations: 31.51-22.6=8.91×0.16=1.4256×5=7.128

D.T.B. - D.T.W. x gal./ft. = Gals./well vol.)

Gals./well vol. X 3 = Total Volume to be removed) Gals./well vol.: _____

Time	Depth to Water (D.T.W.)	Depth to Bottom (D.T.B.)	Volume Removed (gal.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
1350	22.6	31.51									
1422		Removed 5 gallons water with GeoSquirt first									
1431			5.5	5.61	4666	21.98	cloudy	N	Yes	1.00	-623
1433			5.75	5.61	4683	21.53	gray tint	N	Yes	0.8	-62.2
1435			~~5.62~~ HA	5.62	4691	21.19	cloudy	N	Yes	0.69	-62.5
1437			6.1	5.59	4678	20.88	Translucent gray tint	N	Yes	0.58	-60.7
1438			6.2	5.62	4692	20.84	"	N	Yes	0.52	-63
1439			6.3	5.63	4694	20.72	"	N	Yes	0.47	-63.3
1440			6.4	5.62	4699	20.59	"	N	Yes	0.44	-63.5
1441			6.5	5.63	4696	20.56	"	N	Yes	0.43	-63.7
		Final Sample Readings									

Comments: _____

Well I.D.	Gallons/ft
1"	0.04
1.25"	0.06
2"	0.16
4"	0.65

Blank Taken ☐ Time: _____

Well Duplicate ☐ No.: _____

Signature: Heather Acorn

Date: 06 21 06

Air Monitoring

Location	Hnu/PPM	LEL %	0_2 %	H_2S/PPM	CO/PPM

ENTACT
The Nation in Customer Care

Well Purging and Ground Water Sampling Form

Well No.: P-03 Site: AZRIFS Project No.: C-1727

Purging Method: ☑ Pumped ☐ Bailed ☐ Micropurge ☐ Other: _____

Pump Type: GeoPump2 Bailer Type: _____

Weather Conditions: 90's, sunny, humid, windy

Volume Calculations: _____

(D.T.B. - D.T.W. x gal./ft. = Gals./well vol.)

(Gals./well vol. X 3 = Total Volume to be removed) Gals./well vol.: _____

Time	Depth to Water (D.T.W.)	Depth to Bottom (D.T.B.)	Volume Removed (gal.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
1442			6.6	5.63	4693	20.59	translucent gray tint	N	Yes	0.4	-64
1443			~6.6	5.64	4698	20.58	"	N	Yes	0.4	-64.4
1443	23.03										
		Final Sample Readings									

Comments: _____

Well I.D.	Gallons/ft
1"	0.04
1.25"	0.06
2"	0.16
4"	0.65

☐ Blank Taken ☐ Time: _____

Well Duplicate ☐ No.: _____

Signature: Heather Alcorn

Date: 06 21 06

Air Monitoring

Location	Hnu/PPM	LEL %	0_2 %	H_2S/PPM	CO/PPM

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Well Purging and Ground Water Sampling Form

Well No.: MW-24 Site: AZRIFS Project No.: C-1727

Purging Method: ☑ Pumped ☐ Bailed ☐ Micropurge ☐ Other: _____

Pump Type: GeoSquirt & GeoPump2 Bailer Type: _____

Weather Conditions: upper 80's, humid, sunny

Volume Calculations: (18.93 - 16.3) x 0.16 = 0.4208 x 5 = 2.104

(D.T.B. - D.T.W. x gal./ft. = Gals./well vol.)

(Gals./well vol. X 3 = Total Volume to be removed) Gals./well vol.: _____

to casing top

Time	Depth to Water (D.T.W.)	Depth to Bottom (D.T.B.)	Volume Removed (gal.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
1000	16.3	18.93									
1004			0.75	with GeoSquirt			sandy brown				
1012			≈1	6.53	1609	18.85	translucent	N	Yes	1.53	83.8
1013			1.1	6.54	1604	18.83	clear	N	Yes	1.16	75.5
1014			≈1.2	6.55	1602	18.73	clear	N	Yes	0.98	70.0
1015			1.4	6.56	1602	18.57	clear	N	Yes	0.86	65.7
1016			≈1.5	6.56	1607	18.37	clear	N	Yes	0.76	61.4
1017			1.6	6.57	1606	18.35	clear	N	Yes	0.66	56.7
1018			1.75	6.57	1607	18.31	clear	N	Yes	0.6	53.1
1019			≈1.9	6.57	1612	18.17	clear	N	Yes	0.54	49.3
		Final Sample Readings									

Comments:
sand in base of cell afterward

Well I.D.	Gallons/ft
1"	0.04
1.25"	0.06
2"	0.16
4"	0.65

casing 16.7/16.7 18.84/18.93 casing

Blank Taken ☐ Time: _____

Well Duplicate ☐ No.: _____

Signature: Heather Aborn

Date: 06 22 06

Air Monitoring

Location	Hnu/PPM	LEL %	0_2 %	H_2S/PPM	CO/PPM

ENTACT
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Well Purging and Ground Water Sampling Form

Well No.: MW-24 Site: ARRIFS Project No.: C-1727

Purging Method: ☑ Pumped ☐ Bailed ☐ Micropurge ☐ Other: _____

Pump Type: GeoPump Bailer Type: _____

Weather Conditions: 80s, sunny, humid

Volume Calculations: _____

D.T.B. - D.T.W. x gal./ft. = Gals./well vol.)

Gals./well vol. X 3 = Total Volume to be removed) Gals./well vol.: _____

Time	Depth to Water (D.T.W.)	Depth to Bottom (D.T.B.)	Volume Removed (gal.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
1020			~2	6.57	1610	18.23	clear	N	Yes	0.49	45.3
1021			2	6.57	1613	18.09	clear	N	Yes	0.46	41.2
1022			2.1	6.58	1608	18.20	clear	N	Yes	0.44	38.6
1022			2.15	6.58	1608	18.34	clear	N	Yes	0.43	36.6
1023			2.2	6.58	1614	18.20	clear	N	Yes	0.41	33.5
1025	16.2		2.5	6.57	1618	17.97	clear	N	Yes	0.4	32.3
		Final Sample Readings									

Comments: _____

Well I.D.	Gallons/ft
1"	0.04
1.25"	0.06
2"	0.16
4"	0.65

Blank Taken ☐ Time: _____

Well Duplicate ☐ No.: _____

Signature: Heather Dann

Date: 06 22 06

Air Monitoring

Location	Hnu/PPM	LEL %	0_2 %	H_2S/PPM	CO/PPM

ENTACT
Leading the Nation in Customer Care

Well Development
(Must Have Well Construction Diagrams)

Well No. MW-24

Date: 06 / 20 / 06

Mon. (Tues.) Weds. Thurs. Fri.

Site: OAZRIFS Fairmont City, IL

Weather: 80's, sunny

Project No.: C-1727

Development Method: Pumped ☑ Bailed ☐ Other:

Pump Type: GeoPump 2

Bailer Type:

Volume Calculation: $(19.2 - 17.81) \times 0.16 = \cancel{0.25440}\ \cancel{0.0}\ 0.2224$ H.A. $\times 5 = \cancel{0.1117}\ \cancel{81.752}\ 1.112$ H.A.

(D.T.B. – D.T.W. x vol./ft. = PVC/well volume) + (N* x H* x Annulus vol./ft.) = Total Well Volume

* (Wells that cannot be purged dry, 10x's the Total Well Volume must be purged)
(Wells that can be purged dry, slowly removing water, without surging until dry)

Time	Depth to Water (D.T.W.)	Depth to Bottom (D.T.B.)	Volume Removed (gal.)	pH	Cond.	Temp.	Color	Odor Y/N	Turbidity
1123	17.81	19.2							
Added 1 gallon H_2O @ 1132 to well → used dedicated bailer to remove water									
Added 1 gallon H_2O @ 1140 to well → used dedicated bailer to remove water									
Added 1 gallon H_2O @ 1142 to well → used dedicated bailer to remove water									
Added 1 gallon H_2O @ 1145 to well → used dedicated bailer to remove water									
Added 1 gallon H_2O @ 1202 to well → used dedicated bailer to remove water									
Added 1 gallon H_2O @ 1209 to well → used dedicated bailer to remove water									
Cloudy, brown water removed									
Added 1 gallon H_2O @ 1215 to well → used dedicated bailer to remove water									
Cloudy, brown water removed, ceased activity @ 1223 due to continued cloudiness									

Comments: White sediment on dedicated bailer

Light gray sediment, soft bottom

*N = porosity of filter pack
*H = length of filter pack or length of saturated filter pack (water level within screen length)
* = A 30-minute surge and purge before the 10x's the Total Well Volume

Annulus	vol./ft.
4"	0.42
6"	1.24
8"	2.38
10"	3.85

Inside Diameter	vol./ft.
1"	0.04
1.25"	0.06
2"	0.16
4"	0.65

HNu/PPM	LEL/%	O2/%	H_2S/PPM	CO/PPM	

Signature: Heather Alcorn

ENTACT
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Well Development
(Must Have Well Construction Diagrams)

Well No. MW-29

Date: 06 / 20 / 06
Mon. (Tues.) Weds. Thurs. Fri.

Site: AZRIFS

Weather: 80's, sunny

Project No.: C-1727

Development Method: Pumped ☑ Bailed ☐ Other:

Pump Type: GeoPump 2

Bailer Type:

Volume Calculation: (18.3 - 16.25) x 0.06 = 0.123 0.123 x 5 = 0.615

(D.T.B. – D.T.W. x vol./ft. = PVC/well volume) + (N* x H* x Annulus vol./ft.) = Total Well Volume
* (Wells that cannot be purged dry, 10x's the Total Well Volume must be purged)
(Wells that can be purged dry, slowly removing water, without surging until dry)

Time	Depth to Water (D.T.W.)	Depth to Bottom (D.T.B.)	Volume Removed (gal.)	pH	Cond.	Temp. (°C)	Color	Odor Y/N	Turbidity	
1017	16.25'	18.30'	(All) 0.6							← Added 1 gal. H_2O to well
1044			1.5	5.53	281	22.7	light brown	N	Yes	
1045			1.6	5.8	1015	20.23	light brown	N	Yes	← Added 1 gal. H_2O to well
1052			2.1	4.9	84	22.97	very light brown	N	Yes	
1054			2.4	5.55	245	22.7	very light brown	N	Yes	
1056			2.5	5.9	1070	20.76	very light brown	N	Yes	
1100			2.5	6.05	1687	20.51	cloudy	N	Yes	
1102			2.5	6.01	1586	19.88	cloudy	N	Yes	D.O. 2.2
1103			2.6	6.04	1637	19.2	cloudy	N	Yes	D.O. 1.8
1104			2.6	6.09	1828	18.79	cloudy	N	Yes	D.O. 1.48

Comments: soft bottom
orange rust sediment
sand in cell

*N = porosity of filter pack
*H = length of filter pack or length of saturated filter pack (water level within screen length)
* = A 30–minute surge and purge before the 10x's the Total Well Volume

Annulus	vol./ft.
4"	0.42
6"	1.24
8"	2.38
10"	3.85

Inside Diameter	vol./ft.
1"	0.04
1.25"	0.06
2"	0.16
4"	0.65

HNu/PPM	LEL/%	O_2/%	H_2S/PPM	CO/PPM	

Signature: [signature]

ENTACT
Leading the Nation in Customer Care

Well Development
(Must Have Well Construction Diagrams)

Well No. MW-29

Date: 06 /20 /06
Mon. (Tues.) Weds. Thurs. Fri.

Site: AZRIFS Fairmont City, IL
Weather: 80's, sunny
Project No.: C-1727
Development Method: Pumped ☑ Bailed ☐ Other:
Pump Type: GeoPump 2
Bailer Type:
Volume Calculation:

(D.T.B. – D.T.W. x vol./ft. = PVC/well volume) + (N* x H* x Annulus vol./ft.) = Total Well Volume
* (Wells that cannot be purged dry, 10x's the Total Well Volume must be purged)
(Wells that can be purged dry, slowly removing water, without surging until dry)

Time	Depth to Water (D.T.W.)	Depth to Bottom (D.T.B.)	Volume Removed (gal.)	pH	Cond.	Temp. (°C)	Color	Odor Y/N	Turbidity	
1106			≈2.8	6.16	2043	18.57	clear	N	No	D.O. 1.26
1107			≈2.85	6.19	2140	18.44	clear	N	No	D.O. 1.27
1108			≈3.1	6.23	2170	18.32	clear	N	No	D.O. 1.19
1109	16.17		≈3.1	6.24	2175	18.32	clear	N	No	D.O. 1.19

Comments:

*N = porosity of filter pack
*H = length of filter pack or length of saturated filter pack (water level within screen length)
* = A 30-minute surge and purge before the 10x's the Total Well Volume

Annulus	vol./ft.
4"	0.42
6"	1.24
8"	2.38
10"	3.85

Inside Diameter	vol./ft.
1"	0.04
1.25"	0.06
2"	0.16
4"	0.65

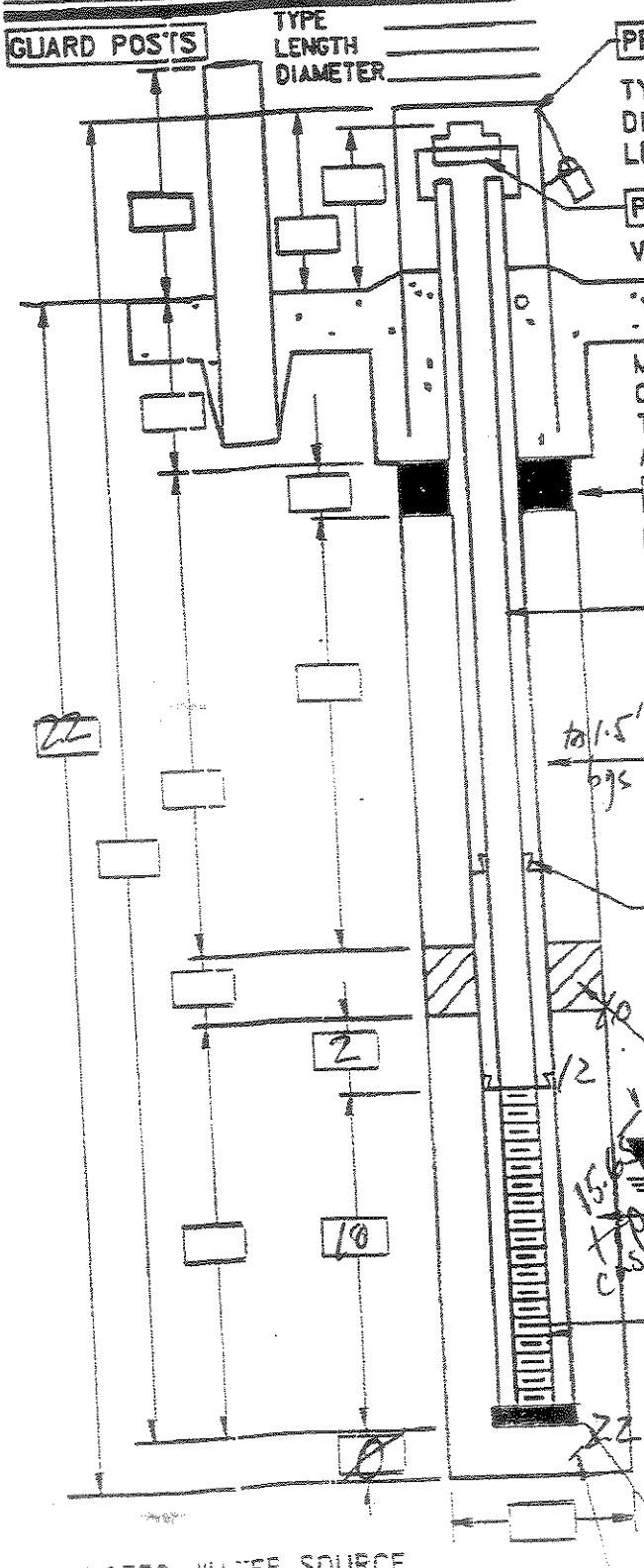
HNu/PPM	LEL/%	O2/%	H2S/PPM	CO/PPM	

Signature: Heather Acorn

COE MONITORING WELL INSTALLATION DIAGRAM

Start: 1622
Stop: 1718

SITE: OAZ RI DATE: 6/20/06 WELL NO. MW-01
BY: MLG PROJECT NO. 01727 T/RISER ELEV ___
GRD SURFACE ELEV ___



GUARD POSTS TYPE ___ LENGTH ___ DIAMETER ___

PROTECTIVE CASING
TYPE STANDPIPE VENTED ___
DIAMETER 4" LOCKED ___
LENGTH 5ft KEYED ___

PLUG TYPE ___
VENTED: YES/NO TYPE ___

CONCRETE PAD/COLLAR
MANUFACTURER QUICKCRETE
QUANTITY CEMENT ___ lbs. + WATER ___ gal
TOTAL QUANTITY ___ gal.
AIR ENTRAINED YES/NO

SEAL MANUFACTURER ___
POWDER/GRANULAR/PELLETS QUANTITY ___ gal
HYDRATION START ___ FINISH ___

PIPE TYPE PVC
O.D. 2" MANUFACTURER MONOFLEX
I.D. ___ SCHEDULE 40
LENGTH/PER SPEC. 10 NO. OF SEC. ___

GROUT TYPE BENTONITE HOLE PLUG
CEMENT ___ lbs. + BENTONITE ___ lbs. +
WATER ___ gal. YIELD ___
MANUFACTURERS ___

JOINTS
FLUSH THREADED ___ COUPLED ___
TEFLON TAPED YES/NO O-RING
MANUFACTURER MONOFLEX

BENTONITE SEAL
POWDER/GRANULAR/PELLETS QUANTITY ___ gal
HYDRATION START ___ FINISH ___

APPROX WATER TABLE ELEVATION 15.0

SAND/GRAVEL FILTER PACK TYPE(S) ___
SOURCE QTZ SAND (NSP) 50 # bags
VOLUME 5 bags

SCREEN
TYPE PVC SLOT SIZE 0.010"
O.D. 2" NO. SLOTS/ft. 45
I.D. ___ SCHEDULE 40
MANUFACTURER MONOFLEX
LENGTH/PER SEC. 10 NO. OF SEC. 1

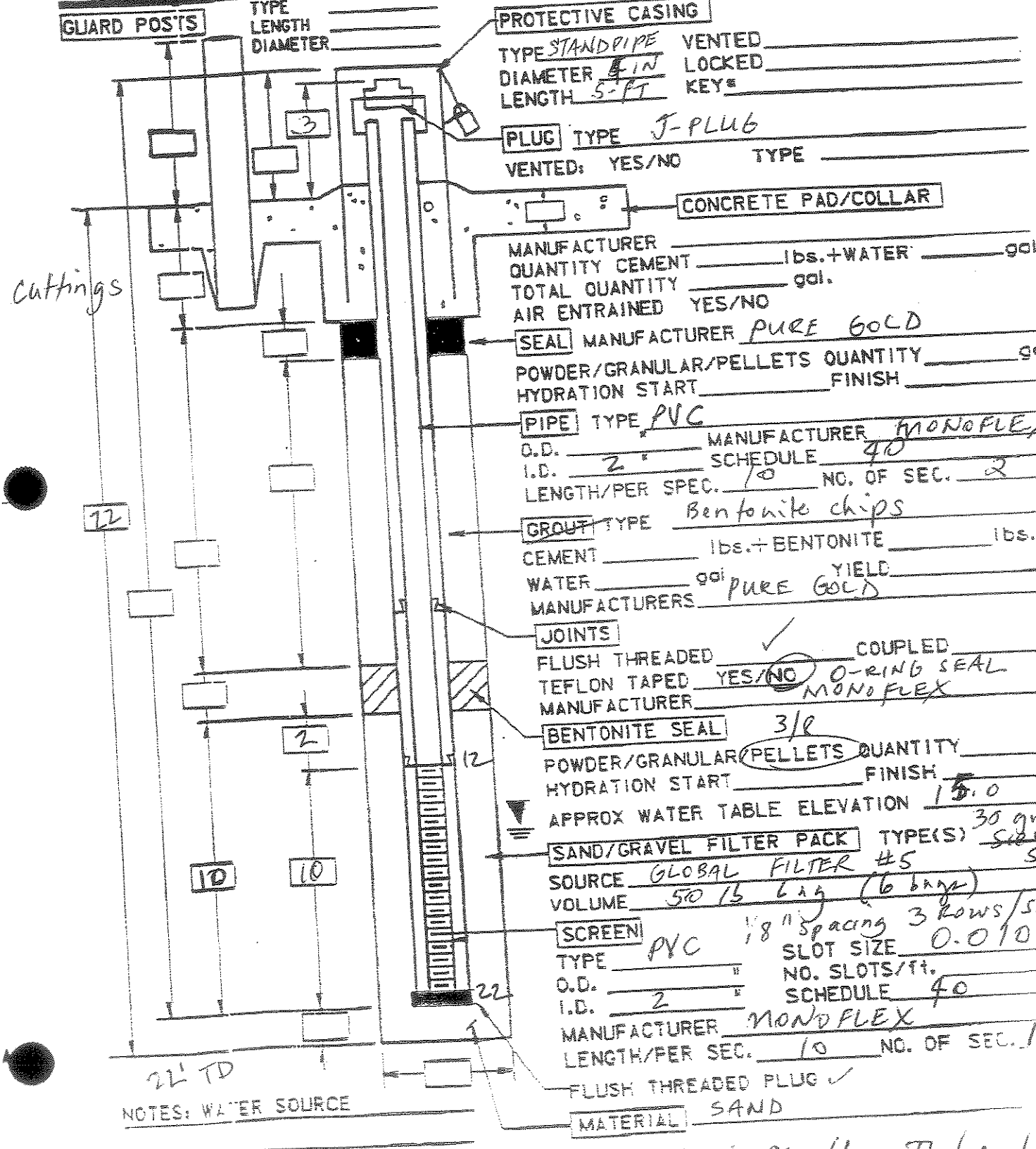
FLUSH THREADED PLUG
MATERIAL ___

NOTES: WATER SOURCE ___

start: 1343

COE MONITORING WELL INSTALLATION DIAGRAM

SITE: FAIRMONT CITY DATE: 06/19/06 WELL NO. MW-02
BY: MLG PROJECT NO. C1727 T/RISER ELEV ___
GRD SURFACE ELEV ___



NOTES: WATER SOURCE

hand dug to 1.0', collect Shelby Tube 1-3.5 for moisture

Sheet 1 of ___

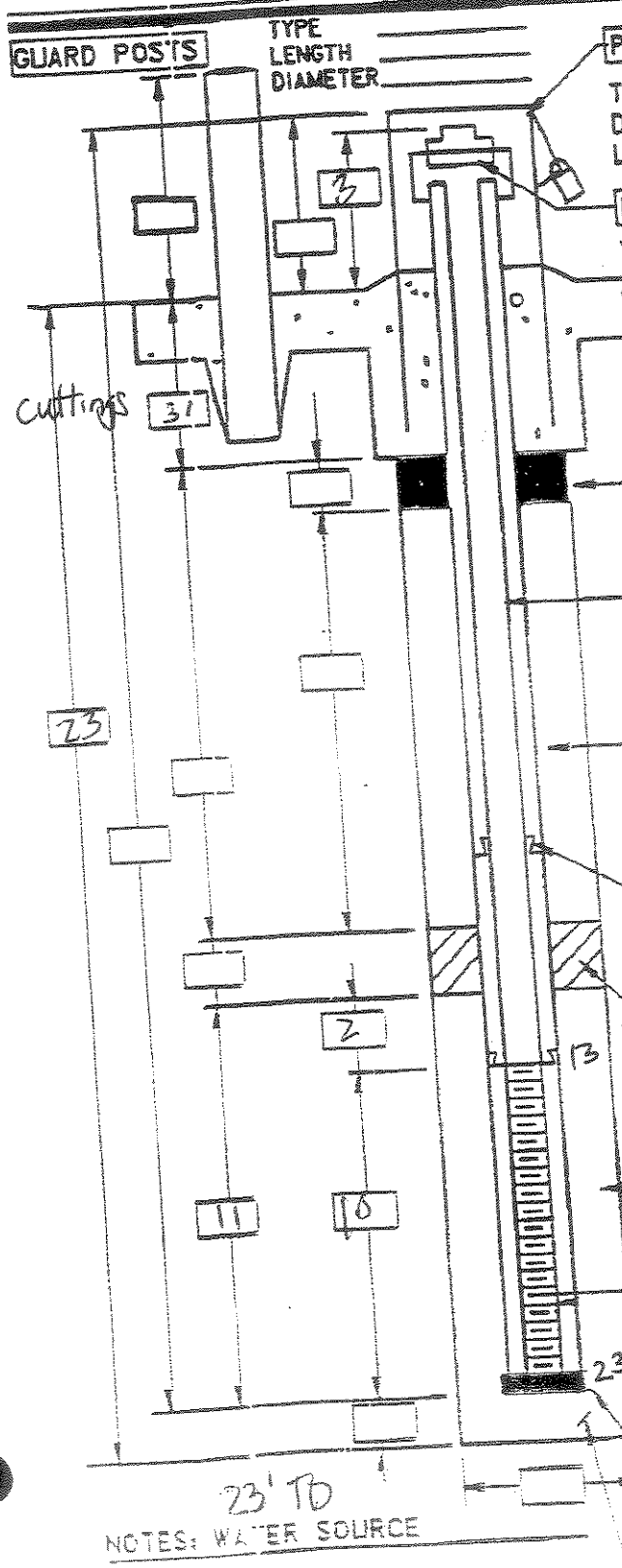
COE MONITORING WELL INSTALLATION DIAGRAM

SITE: FAIRMONT CITY DATE: 06/19/06 WELL NO. MW-03.

BY: MLB PROJECT NO. C1727 T/RISER ELEV ___

GRD SURFACE ELEV ___

int: 1522



GUARD POSTS TYPE ___ LENGTH ___ DIAMETER ___

PROTECTIVE CASING TYPE STANDPIPE VENTED ___ DIAMETER 4-in LOCKED ___ LENGTH 5-FT KEY# ___

PLUG TYPE J-PLUG VENTED: YES/NO TYPE ___

CONCRETE PAD/COLLAR MANUFACTURER ___ QUANTITY CEMENT ___ lbs. + WATER ___ gal TOTAL QUANTITY ___ gal. AIR ENTRAINED YES/NO

SEAL MANUFACTURER PURE GOLD POWDER/GRANULAR/PELLETS QUANTITY ___ gal HYDRATION START ___ FINISH ___

PIPE TYPE PVC O.D. ___ MANUFACTURER MONOFLEX I.D. 2" SCHEDULE 40 LENGTH/PER SPEC. 10 NO. OF SEC. 2

GROUT TYPE BENTONITE CHIPS CEMENT ___ lbs. + BENTONITE ___ lbs. + WATER ___ gal, YIELD ___ MANUFACTURERS PURE GOLD 1,50-lb bag

JOINTS FLUSH THREADED ✓ COUPLED ___ TEFLON TAPED YES/NO O-RING SEAL MANUFACTURER MONOFLEX

BENTONITE SEAL 3/8 POWDER/GRANULAR/PELLETS QUANTITY ___ gal. HYDRATION START ___ FINISH ___

APPROX WATER TABLE ELEVATION 16.0

SAND/GRAVEL FILTER PACK TYPE(S) ___ SOURCE GLOBAL FILTER #5 VOLUME 30 lb bags (4.5 bags) Y8" spacing 3 ROWS/slots

SCREEN TYPE PVC SLOT SIZE 0.010 O.D. 2" NO. SLOTS/ft. ___ I.D. 2" SCHEDULE 40 MANUFACTURER MONO FLEX LENGTH/PER SEC. 10 NO. OF SEC. 1

FLUSH THREADED PLUG MATERIAL SAND

NOTES: WATER SOURCE

slug to approx. 4.5' bgs, Shelby tube 6-7.5' bgs

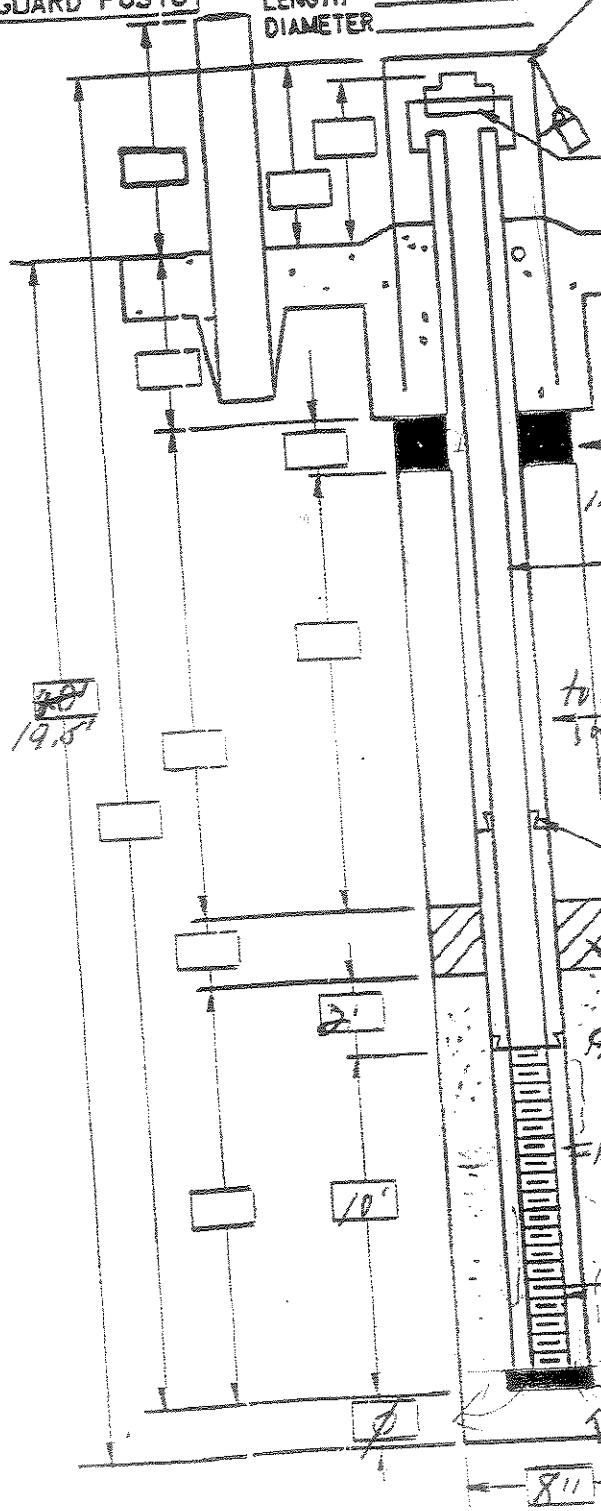
COE MONITORING WELL INSTALLATION DIAGRAM

SITE: OA2 DATE: 6-20-06 WELL NO. MW-04

BY: P.I. PROJECT NO. C1727 T/RISER ELEV ___

GRD SURFACE ELEV ___

4.25"-10 HSA Start 0720-End 0810



GUARD POSTS TYPE ___ LENGTH ___ DIAMETER ___

PROTECTIVE CASING TYPE ___ DIAMETER ___ LENGTH ___ VENTED ___ LOCKED ___ KEY# ___

PLUG TYPE ___ VENTED: YES/NO TYPE ___

CONCRETE PAD/COLLAR MANUFACTURER ___ QUANTITY CEMENT ___ lbs. + WATER ___ gal TOTAL QUANTITY ___ gal. AIR ENTRAINED YES/NO

SEAL MANUFACTURER ___ POWDER/GRANULAR/PELLETS QUANTITY ___ gal HYDRATION START ___ FINISH ___

PIPE TYPE PVC-2-10 Sch. 40. MANUFACTURER ___ O.D. ___" SCHEDULE ___ I.D. ___" NO. OF SEC. ___ LENGTH/PER SPEC. ___

GROUT TYPE Bentonite Hole Plug CEMENT ___ lbs. + BENTONITE ___ lbs. + WATER ___ gal. YIELD ___ MANUFACTURERS ___

JOINTS FLUSH THREADED ___ COUPLED ___ TEFLON TAPED YES/NO O-RING MANUFACTURER ___

BENTONITE SEAL POWDER/GRANULAR/PELLETS QUANTITY ___ gal. HYDRATION START ___ FINISH ___

APPROX WATER TABLE ELEVATION wet at top 19

SAND/GRAVEL FILTER PACK TYPE(S) ___ SOURCE Quartz Sand (NSF) (50 # bags) VOLUME ___

SCREEN TYPE PVC O.D. 2" I.D. ___" SLOT SIZE 0.010" NO. SLOTS/ft. 10 SCHEDULE 40 MANUFACTURER ___ LENGTH/PER SEC. ___ NO. OF SEC. ___

FLUSH THREADED PLUG MATERIAL ___

NOTES: WATER SOURCE

Shelby Tube Collected @ 9'-10.5'

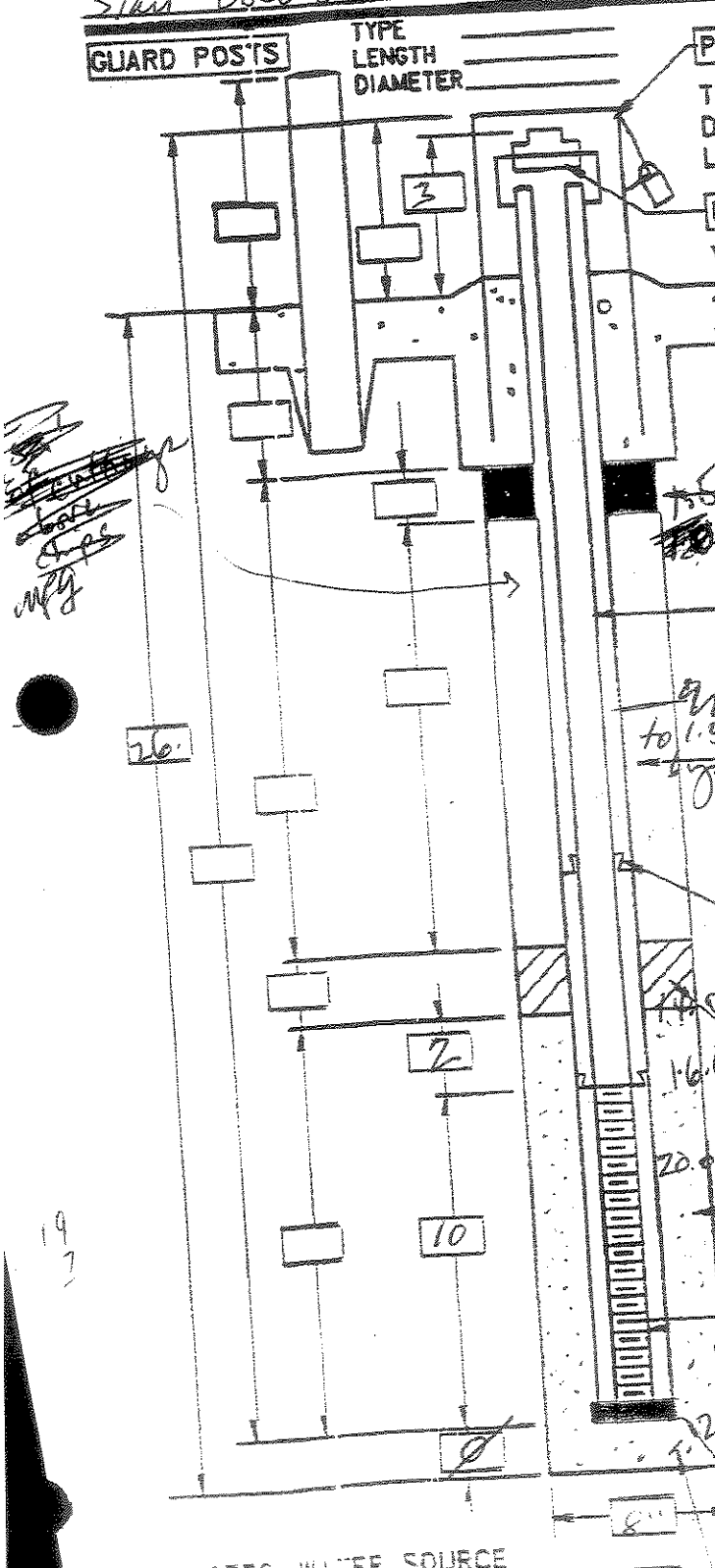
COE MONITORING WELL INSTALLATION DIAGRAM

SITE: OAZRI DATE: 6-20-06 WELL NO. MW-05

BY: KAT PROJECT NO. C1727 T/RISER ELEV ___

GRD SURFACE ELEV ___

Start 0820 End: 0918



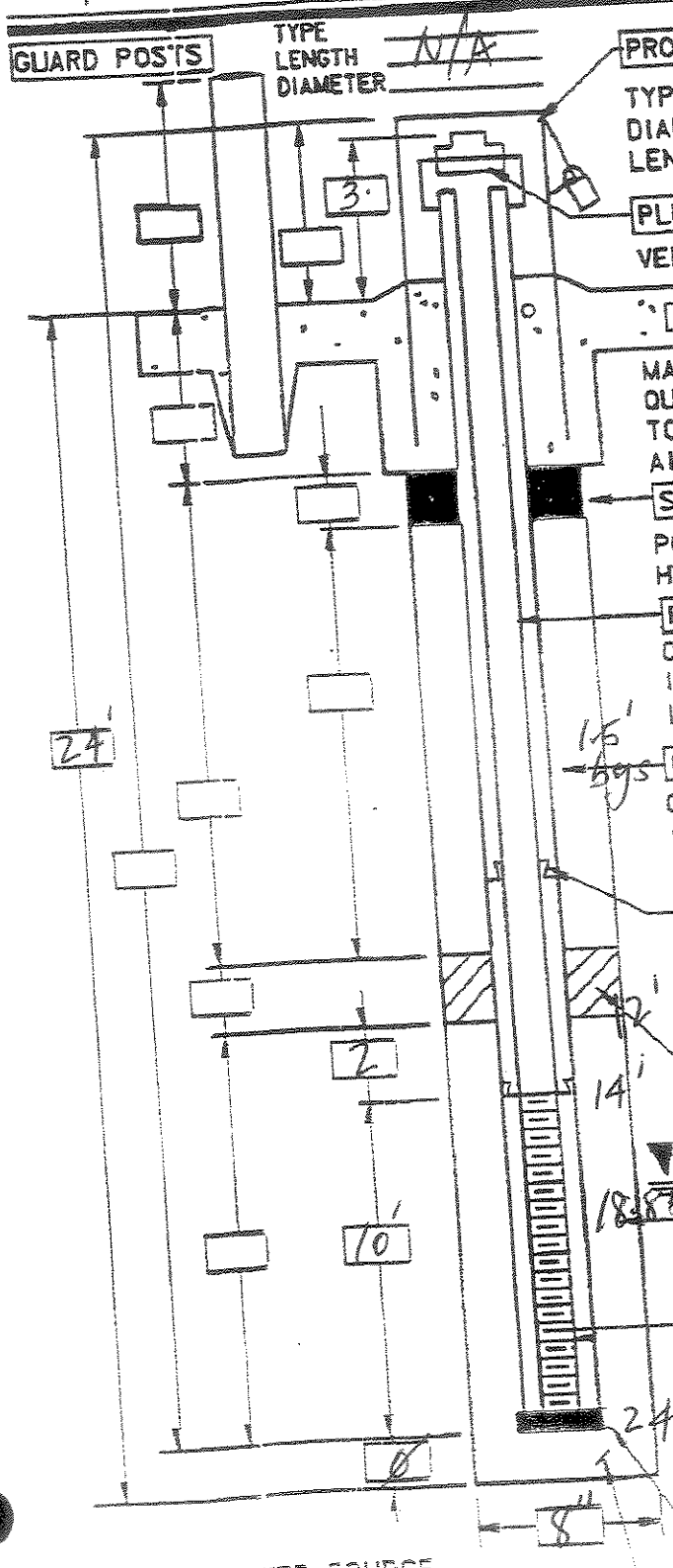
NOTES: WATER SOURCE

Shelby Tube @ 15'

COE MONITORING WELL INSTALLATION DIAGRAM

start: 0718
stop: 0740/0753

SITE: OAZ R1 DATE: 6/21/06 WELL NO. MW-06
BY: MLG PROJECT NO. C1727 T/RISER ELEV
GRD SURFACE ELEV



GUARD POSTS TYPE N/A LENGTH DIAMETER

PROTECTIVE CASING TYPE STANDPIPE VENTED NO DIAMETER 4-IN LOCKED Yes LENGTH 5-FT KEY#

PLUG TYPE J-PLUG VENTED: YES/NO TYPE

CONCRETE PAD/COLLAR MANUFACTURER QUICKCRETE QUANTITY CEMENT lbs.+WATER gal TOTAL QUANTITY gal. AIR ENTRAINED YES/NO

SEAL MANUFACTURER CUTTINGS POWDER/GRANULAR/PELLETS QUANTITY gal HYDRATION START FINISH

PIPE TYPE PVC O.D. 2" MANUFACTURER MONOFLEX I.D. SCHEDULE 40 LENGTH/PER SPEC. 10 NO. OF SEC. 2

15' bgs

GROUT TYPE BENTONITE HOLE PLUG CEMENT lbs.+BENTONITE lbs.+ WATER gal/lb. YIELD MANUFACTURERS ~~GOOD~~ BAROID

JOINTS FLUSH THREADED ✓ COUPLED TEFLON TAPED YES/NO O-RING MONOFLEX MANUFACTURER

BENTONITE SEAL POWDER/GRANULAR/PELLETS QUANTITY gal. HYDRATION START FINISH

14'

APPROX WATER TABLE ELEVATION 12.0

18.86

SAND/GRAVEL FILTER PACK TYPE(S) #5 grain SOURCE QTZ SAND (NSF) 50# bags VOLUME 7 bags

SCREEN TYPE PVC SLOT SIZE 0.010" O.D. 2" NO. SLOTS/ft. 95 I.D. SCHEDULE 40 MANUFACTURER MONOFLEX LENGTH/PER SEC. 10 NO. OF SEC. 1

24'

FLUSH THREADED PLUG MATERIAL

NOTES: WATER SOURCE

Sheet 1 of ___

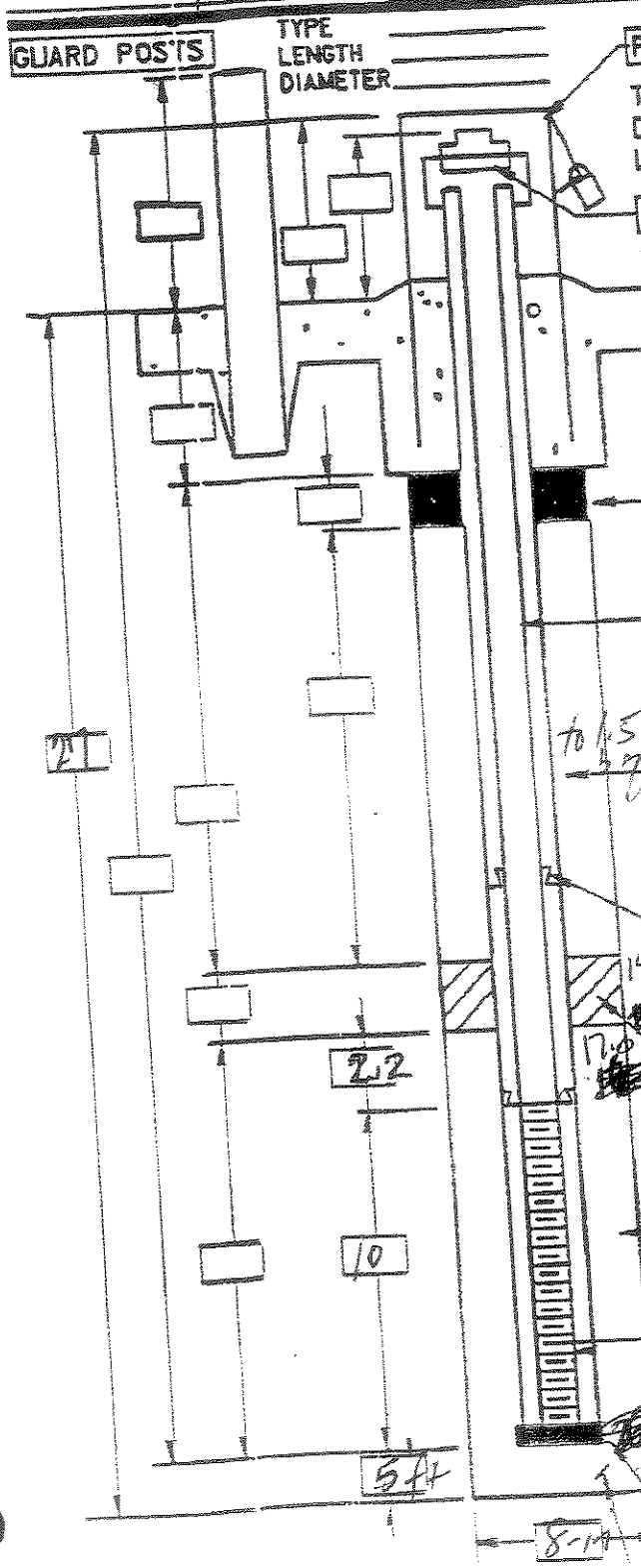
COE MONITORING WELL INSTALLATION DIAGRAM

SITE: OAZ RI DATE: 6/20/06 WELL NO. MW-07.

BY: MLG PROJECT NO. C1727 T/RISER ELEV ___

GRD SURFACE ELEV ___

start: 1116
stop: 1203



GUARD POSTS
TYPE ___
LENGTH ___
DIAMETER ___

PROTECTIVE CASING
TYPE STANDPIPE VENTED ___
DIAMETER 4-IN LOCKED ___
LENGTH 5-FT KEYED ___

PLUG TYPE T-PLUG
VENTED: YES/NO TYPE ___

CONCRETE PAD/COLLAR
MANUFACTURER ___
QUANTITY CEMENT ___ lbs. + WATER ___ gal
TOTAL QUANTITY ___ gal.
AIR ENTRAINED YES/NO

SEAL MANUFACTURER CUTTINGS
POWDER/GRANULAR/PELLETS QUANTITY ___ gal
HYDRATION START ___ FINISH ___

PIPE TYPE PVC
O.D. 2" MANUFACTURER MONOFLEX
I.D. ___ SCHEDULE 40
LENGTH/PER SPEC. 10 NO. OF SEC. 2

GROUT TYPE BENTONITE HOLE PLUG
CEMENT ___ lbs. + BENTONITE ___ lbs. +
WATER ___ gal. YIELD ___
MANUFACTURERS 2,50 lb bags PURE GOLD

JOINTS
FLUSH THREADED ___ COUPLED ___
TEFLON TAPED YES/NO O-RING
MANUFACTURER MONOFLEX

BENTONITE SEAL
POWDER/GRANULAR/PELLETS QUANTITY ___ gal.
HYDRATION START ___ FINISH ___
APPROX WATER TABLE ELEVATION 20.0

SAND/GRAVEL FILTER PACK TYPE(S) ___
SOURCE Quartz sand (#5F) 50 lb bag
VOLUME 6 bags

SCREEN
TYPE PVC SLOT SIZE 0.010
O.D. 2" NO. SLOTS/FT. 45
I.D. ___ SCHEDULE 40
MANUFACTURER MONOFLEX
LENGTH/PER SEC. 10 NO. OF SEC. 1

FLUSH THREADED PLUG
MATERIAL ___

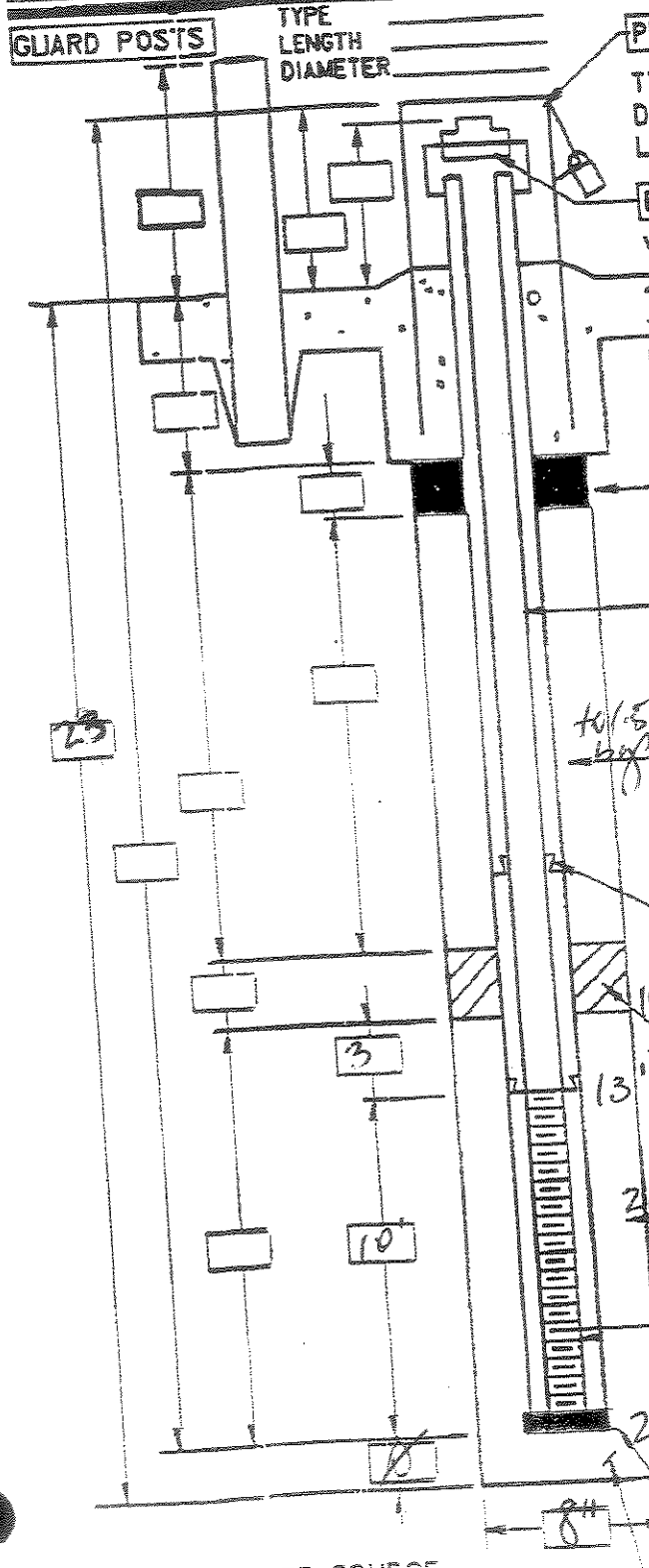
NOTES: WATER SOURCE ___

COE MONITORING WELL INSTALLATION DIAGRAM

SITE: OAZ R1 DATE: 06/20/06 WELL NO. P-01

BY: MLG PROJECT NO. C1727 T/RISER ELEV

start: 1455 stop: 1536 GRD SURFACE ELEV



GUARD POSTS TYPE LENGTH DIAMETER

PROTECTIVE CASING NONE
TYPE VENTED
DIAMETER LOCKED
LENGTH KEY#

PLUG TYPE
VENTED: YES/NO TYPE

CONCRETE PAD/COLLAR
MANUFACTURER
QUANTITY CEMENT lbs.+WATER gal
TOTAL QUANTITY gal.
AIR ENTRAINED YES/NO

SEAL MANUFACTURER
POWDER/GRANULAR/PELLETS QUANTITY gal
HYDRATION START FINISH

PIPE TYPE PVC
O.D. 2" MANUFACTURER MONOFLEX
I.D. SCHEDULE 40
LENGTH/PER SPEC. 10 NO. OF SEC. 2

GROUT TYPE BENT. HOLE PLUG
CEMENT lbs.+BENTONITE lbs. +
WATER gal. YIELD
MANUFACTURERS PURE GOLD

JOINTS
FLUSH THREADED COUPLED
TEFLON TAPED YES/NO O-RING
MANUFACTURER

BENTONITE SEAL
POWDER/GRANULAR/PELLETS QUANTITY gal.
HYDRATION START FINISH

APPROX WATER TABLE ELEVATION

SAND/GRAVEL FILTER PACK TYPE(S)
SOURCE Qtz sand
VOLUME 6 bags

SCREEN
TYPE PVC SLOT SIZE 0.010
O.D. 2" NO. SLOTS/ft. 95
I.D. SCHEDULE 40
MANUFACTURER MONOFLEX
LENGTH/PER SEC. 10 NO. OF SEC. 1

FLUSH THREADED PLUG
MATERIAL

NOTES: WATER SOURCE

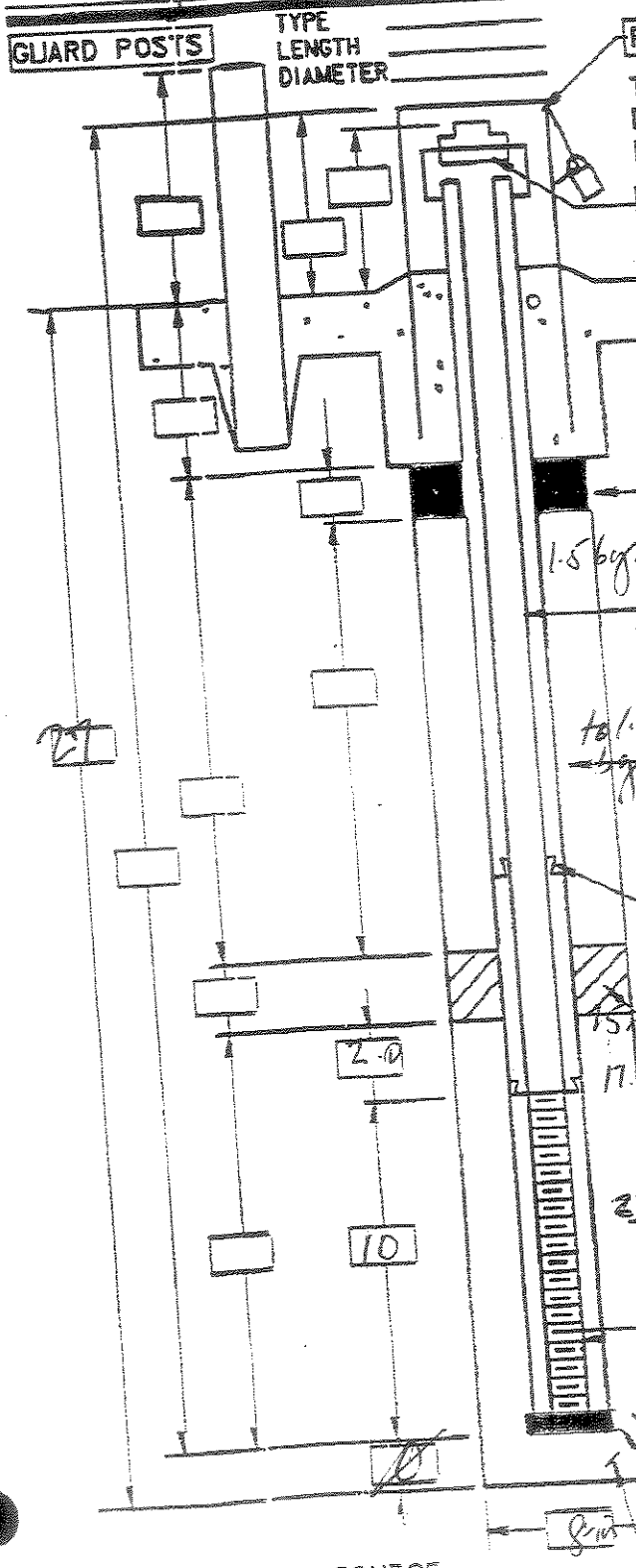
COE MONITORING WELL INSTALLATION DIAGRAM

SITE: OAZ R1 DATE: 6/20/96 WELL NO. I-02

BY: MLG PROJECT NO. C1727 T/RISER ELEV ___

GRD SURFACE ELEV ___

start 1336 stop 1358



GUARD POSTS TYPE ___ LENGTH ___ DIAMETER ___

PROTECTIVE CASING NONE
TYPE ___ VENTED ___
DIAMETER ___ LOCKED ___
LENGTH ___ KEY# ___

PLUG TYPE ___
VENTED: YES/NO TYPE ___

CONCRETE PAD/COLLAR
MANUFACTURER ___
QUANTITY CEMENT ___ lbs. + WATER ___ gal
TOTAL QUANTITY ___ gal.
AIR ENTRAINED YES/NO

SEAL MANUFACTURER ___
POWDER/GRANULAR/PELLETS QUANTITY ___ gal
HYDRATION START ___ FINISH ___

PIPE TYPE PVC
O.D. 2" MANUFACTURER MONOFLEX
I.D. ___ SCHEDULE 40
LENGTH/PER SPEC. 10 NO. OF SEC. 2

GROUT TYPE BENT. HOLE PLUG
CEMENT ___ lbs. + BENTONITE ___ lbs. +
WATER ___ gal. YIELD ___
MANUFACTURERS PURE GOLD
50 # bgs

JOINTS
FLUSH THREADED ___ COUPLED ___
TEFLON TAPED YES/NO O-RING
MANUFACTURER ___

BENTONITE SEAL
POWDER/GRANULAR/PELLETS QUANTITY ___ gal.
HYDRATION START ___ FINISH ___

APPROX WATER TABLE ELEVATION 22.31

SAND/GRAVEL FILTER PACK TYPE(S) ___
SOURCE QUARTZ SAND (ALSF) 50# bags
VOLUME ___

SCREEN
TYPE PVC SLOT SIZE 0.010"
O.D. 2" NO. SLOTS/ft. 45
I.D. ___ SCHEDULE 40
MANUFACTURER MONOFLEX
LENGTH/PER SEC. 10' NO. OF SEC. 1

FLUSH THREADED PLUG
MATERIAL ___

NOTES: WATER SOURCE ___

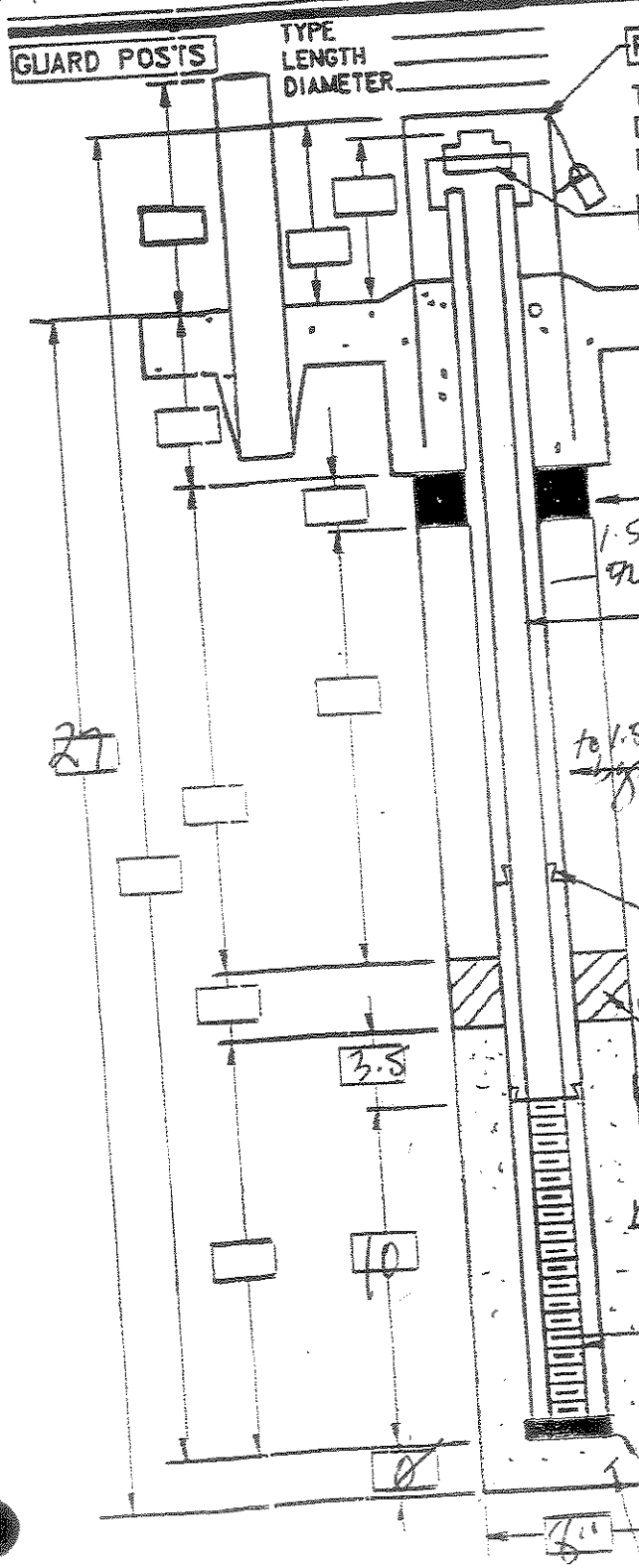
Sheet 1 of ___

COE MONITORING WELL INSTALLATION DIAGRAM

SITE: OAZ R1 DATE: 6/20/06 WELL NO. Mw P-03

BY: MLG PROJECT NO. C727 T/RISER ELEV ___

Start: 0934 end: 1030 GRD SURFACE ELEV ___



GUARD POSTS
TYPE ___
LENGTH ___
DIAMETER ___

PROTECTIVE CASING
TYPE ___ VENTED ___
DIAMETER ___ LOCKED ___
LENGTH ___ KEY# ___

PLUG TYPE ___
VENTED: YES/NO TYPE ___

CONCRETE PAD/COLLAR
MANUFACTURER ___
QUANTITY CEMENT ___ lbs.+WATER ___ gal
TOTAL QUANTITY ___ gal.
AIR ENTRAINED YES/NO

SEAL MANUFACTURER ___
POWDER/GRANULAR/PELLETS QUANTITY ___ gal
HYDRATION START ___ FINISH ___

PIPE TYPE PVC
O.D. 2" MANUFACTURER MONOFLEX
I.D. ___ SCHEDULE 40
LENGTH/PER SPEC. 10' NO. OF SEC. 2

GROUT TYPE Bentonite Hole Plug
CEMENT ___ lbs.+BENTONITE ___ lbs. +
WATER ___ gal. YIELD ___
MANUFACTURERS ___

JOINTS
FLUSH THREADED ___ COUPLED ___
TEFLON TAPED YES/NO O-RING
MANUFACTURER ___

BENTONITE SEAL
POWDER/GRANULAR/PELLETS QUANTITY ___ gal.
HYDRATION START ___ FINISH ___
APPROX WATER TABLE ELEVATION 19.60'

SAND/GRAVEL FILTER PACK TYPE(S) ___
SOURCE Quartz sand (WSF) 50# bags
VOLUME 7 bags

SCREEN
TYPE PVC SLOT SIZE 0.010
O.D. 2" NO. SLOTS/ft. ___
I.D. ___ SCHEDULE 40
MANUFACTURER MONOFLEX
LENGTH/PER SEC. 10' NO. OF SEC. 1

FLUSH THREADED PLUG
MATERIAL ___

NOTES: WATER SOURCE
Shelby Tube @ 19'
Sat. zone.

APPENDIX C-5

GROUNDWATER SAMPLING LOGS

ENTACT
The Nation in Customer Care

Well Purging and Ground Water Sampling Form

Well No.: P-01 Site: OAZ81 Project No.: C-1727

urging Method: ☐ Pumped ☐ Bailed ☒ Micropurge ☐ Other: _____

ump Type: Peristaltic GeoPump II # 451 Bailer Type: _____

Veather Conditions: _____

olume Calculations: ~~25.62~~ - 25.62 - 21.41 = 4.21 x 0.16 = 0.67 gal.

D.T.B. - D.T.W. x gal./ft. = Gals./well vol.)

Gals./well vol. X 3 = Total Volume to be removed) Gals./well vol.: _____

1430 - began

Time	Depth to Water (D.T.W.)	Depth to Bottom (D.T.B.)	Volume Removed (gal.)	pH	µS/cm Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
1435	21.41	25.62		6.25	635	20.71	Slightly Brown	-	Cloudy	4.42	101.1
				6.27	627	20.33	↓			3.74	95.5
				6.27	626	20.43				3.66	94.4
			0.4	6.26	627	20.49				3.63	93.7
				6.26	628	20.50				3.60	92.7
			0.5	6.25	628	20.50				3.58	92.3
		Final Sample Readings									

Comments: Sampled @ 1440.

Well I.D.	Gallons/ft
1"	0.04
1.25"	0.06
2"	0.16
4"	0.65

Air Monitoring

Location	Hnu/PPM	LEL %	0_2 %	H_2S/PPM	CO/PPM

Blank Taken ☐ Time: 1440

Well Duplicate ☒ No.: _____

Signature: Tahnee Thomson

Date: 07/06/06

ENTACT
...the Nation in Customer Care

Well Purging and Ground Water Sampling Form

Well No.: P-02 Site: OAZ-R-1 Project No.: C-1727

Purging Method: ☒ Pumped ☐ Bailed ☒ Micropurge ☐ Other: _____

Pump Type: GEO PUMP Bailer Type: —

Weather Conditions: CLOUDY & HOT

Volume Calculations: (30.41 − 24.81) × 0.16 = 0.896

D.T.B. - D.T.W. x gal./ft. = Gals./well vol.)

Gals./well vol. X 3 = Total Volume to be removed) Gals./well vol.: _____

Time	Depth to Water (D.T.W.)	Depth to Bottom (D.T.B.)	Volume Removed (gal.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
1310	24.94										
1315	GEOPUMP TO REMOVE .89 GALLONS										
1336	24.94	30.41	0.896	6.46	3055	20.61	CLEAR	N	N	5.73	48.5
1337	24.94	30.41	0.8	5.77	3110	19.69				5.99	231.2
1339	"	"		6.21	3108	18.72				5.84	262.1
1340	"	"		6.32	3097	18.81				5.72	236.2
1425	25.61	30.41									
		Final Sample Readings									

Comments: Sample time 1355

Well I.D.	Gallons/ft
1"	0.04
1.25"	0.06
(2")	0.16
4"	0.65

Blank Taken ☐ Time: _____

Well Duplicate ☐ No.: _____

Signature: _____

Date: 6-27-06

Air Monitoring

Location	Hnu/PPM	LEL %	0_2 %	H_2S/PPM	CO/PPM

ENTACT
...he Nation in Customer Care

Well Purging and Ground Water Sampling Form

Well No.: P-03 Site: OAZ Fairmont City, IL Project No.: C-1727

urging Method: ☐ Pumped ☐ Bailed ☒ Micropurge ☐ Other: _____

ump Type: Geopump II Bailer Type: _____

Veather Conditions: ~~30.48 - 22.99 = 7.49~~

/olume Calculations: ~~31.54 - 30.48 = 1.06~~ 7.49 x 0.16 = 1.20 gallons.

D.T.B. - D.T.W. x gal./ft. = Gals./well vol.)

Gals./well vol. X 3 = Total Volume to be removed) Gals./well vol.: _____

Time	Depth to Water (D.T.W.)	Depth to Bottom (D.T.B.)	Volume Removed (gal.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
0916	22.99	30.48									
0940			0.20	6.12	6487	20.95	Colorless	N	Clear	0.89	-64.8
0942			0.30	6.09	6485	20.68	"	"	"	0.65	-64.4
0947			0.50	6.17	6452	20.74	"	"	"	0.46	-65.6
0950			0.60	6.17	6449	20.69	"		"	0.41	-66.2
1000			0.90	6.15	6427	20.91	"	"	"	0.37	-67.5
1005			1.0	6.13	6420	21.12	"	"	"	0.35	-66.6
1010				6.14	6416	21.21	"	"	"	0.38	-66.7
				6.13	6416	21.29	"	"	"	0.40	-66.4
				6.15	6420	21.40	"	"	"	0.32	-66.4
1010		Final Sample Readings		6.13	6423	21.39	"	"	"	0.33	-67.1
				6.13	6425	21.38				0.33	-66.5

Comments: Measured flow = 150mL/min.

Sam

Well I.D.	Gallons/ft
1"	0.04
1.25"	0.06
2"	0.16
4"	0.65

Air Monitoring

Location	Hnu/PPM	LEL %	O_2 %	H_2S/PPM	CO/PPM

☐ Blank Taken ☐ Time: 10:10

Well Duplicate ☒ No.: _____

Signature: Calvin Thomson

Date: 7 : 6 : 06

ENTACT
...the Nation in Customer Care

Well Purging and Ground Water Sampling Form

Well No.: MW-01 Site: QA2 Fairmont City Project No.: C- 1727

Purging Method: ☐ Pumped ☐ Bailed ☒ Micropurge ☐ Other: _____

Pump Type: Peristaltic Geo Pump II Bailer Type: _____

Weather Conditions: Sunny, Warm.

Volume Calculations: 24.65 - 17.89 = 6.76 × 0.16 = 1.08 gal.

D.T.B. - D.T.W. x gal./ft. = Gals./well vol.)

Gals./well vol. X 3 = Total Volume to be removed) Gals./well vol.: _____

0800 - Begin

Time	Depth to Water (D.T.W.)	Depth to Bottom (D.T.B.)	Volume Removed (gal.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
0820	17.89	24.65	0.5	6.93	887	16.59	Colorless	N	Clear	1.38	91.0
0825				6.94	890	16.57	↓		↓	1.00	74.0
0830			1.0	6.94	889	16.60	↓		↓	0.90	62.0
0831				6.94	889	16.66	↓		↓	0.90	60.8
0832				6.94	891	16.52				0.86	54.3
				6.94	891	16.52				0.87	53.0
				6.94	891	16.55				0.86	51.6
0835		Final Sample Readings		6.94	890	16.60				0.85	49.0

Comments: Measured flow - 200 mL/min

Well I.D.	Gallons/ft
1"	0.04
1.25"	0.06
(2")	0.16
4"	0.65

Blank Taken ☐ Time: 0835

Well Duplicate ☐ No.: _____

Signature: Patricia Thomas

Date: 7/7/06

Air Monitoring

Location	Hnu/PPM	LEL %	0_2 %	H_2S/PPM	CO/PPM

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Well Purging and Ground Water Sampling Form

Well No.: MW-02 Site: OAZ RI Project No.: C-1727

Purging Method: ☒ Pumped ☐ Bailed ☒ Micropurge ☐ Other: _____

Pump Type: GEOPUMP 2 Bailer Type: _____

Weather Conditions: partly sunny, windy

Volume Calculations: 24.11 − 19.09 = 0.803 x 5 = 4.02

(D.T.B. - D.T.W. x gal./ft. = Gals./well vol.)

(Gals./well vol. X 3 = Total Volume to be removed) Gals./well vol.: _____

Time	Depth to Water (D.T.W.)	Depth to Bottom (D.T.B.)	Volume Removed (gal.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
1043	19.09										
1111			3.5	6.90	1236	16.63	Colorless	N	N	6.20	58.50
1113				6.81	1235	16.27				3.19	48.5
1115				6.82	1216	15.96				2.51	34.1
1116			4.0	6.81	1225	15.89				2.40	28.1
	19.06	24.00									
		Final Sample Readings									

Comments: VOCs, SVOCs, Metals

Well I.D.	Gallons/ft
1"	0.04
1.25"	0.06
2"	0.16
4"	0.65

sampled @ 1135

☒ Blank Taken ☐ Time: _____

Well Duplicate ☐ No.: _____

Signature: _____

Date: 6/26/06

Air Monitoring

Location	Hnu/PPM	LEL %	O_2 %	H_2S/PPM	CO/PPM

ENTACT
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Well Purging and Ground Water Sampling Form

Well No.: MW-03 Site: DAER1 Fairmont City Project No.: C-123

Purging Method: ☐ Pumped ☐ Bailed ☒ Micropurge ☐ Other: _____

Pump Type: Geopump II / YSI Bailer Type: _____

Weather Conditions: sunny, windy

Volume Calculations: 26.30 - 10.80 = 15.50 x 0.16 = 2.48 one well volume

D.T.B. - D.T.W. x gal./ft. = Gals./well vol.)

Gals./well vol. X 3 = Total Volume to be removed) Gals./well vol.: _____

Time	Depth to Water (D.T.W.)	Depth to Bottom (D.T.B.)	Volume Removed (gal.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
1101	10.80	26.30	0.50	6.19	1825	19.66	Colorless	N	Clear.	1.68	70.2
1130			0.75	6.18	1914	19.60	↓		↓	1.44	69.6
1132				6.20	1974	19.58				1.28	69.3
1133			0.90	6.21	2019	19.50				1.18	68.6
1140			1.2	6.23	2225	19.39				0.69	59.0
1142			1.4	6.24	2306	19.53				0.56	54.9
1144			1.5	6.23	2366	19.53				0.50	50.3
			1.6	6.22	2422	19.46				0.43	43.5
				6.25	2427	19.45				0.42	39.8
1150			1.8.	6.24	2428	19.47				0.41	39.8
		Final Sample Readings									

Comments: Measured flow 250 mL/min -
Sample collected @ 1145

Well I.D.	Gallons/ft
1"	0.04
1.25"	0.06
2"	0.16
4"	0.65

☐ Blank Taken ☐ Time: 1145
Well Duplicate ☒ No.: MW-03/FD
Signature: Rebecca Thomson
Date: 7/6/06

Air Monitoring

Location	Hnu/PPM	LEL %	0_2 %	H_2S/PPM	CO/PPM

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Well Purging and Ground Water Sampling Form

Well No.: MW-04 Site: OA 2 R1 Project No.: C-1727

urging Method: ☒ Pumped ☐ Bailed ☒ Micropurge ☐ Other: _____

ump Type: GEOPUMP II Bailer Type: _____

Veather Conditions: partly sunny, hazy

'olume Calculations: 22.6 - 18.16 = 4.44 x 0.16 = 0.71

D.T.B. - D.T.W. x gal./ft. = Gals./well vol.)

Gals./well vol. X 3 = Total Volume to be removed) Gals./well vol.: _____

Time	Depth to Water (D.T.W.)	Depth to Bottom (D.T.B.)	Volume Removed (gal.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
1200	18.16										
1212			0.5	6.52	1146	18.41				2.77	-198.9
1213				6.52	1158	17.88				1.29	-198.8
1214				6.52	1160	17.81				1.03	-198.5
				6.53	1165	17.79				0.86	-198.4
1216				6.53	1169	17.65				0.75	-198.3
1258	18.30	22.59									
		Final Sample Readings									

Comments: Sampled @ 1238

MS/MSD

Well I.D.	Gallons/ft
1"	0.04
1.25"	0.06
2"	0.16
4"	0.65

Blank Taken ☐ Time: _____

Well Duplicate ☐ No.: _____

Signature: _____

Date: 06 27 06

Air Monitoring

Location	Hnu/PPM	LEL %	0_2 %	H_2S/PPM	CO/PPM

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Well Purging and Ground Water Sampling Form

Well No.: MW-05 Site: OA2 R1 Project No.: C-1727

Purging Method: ☒ Pumped ☐ Bailed ☒ Micropurge ☐ Other:

Pump Type: GEOPUMP II Bailer Type:

Weather Conditions: partly sunny, hazy

Volume Calculations: 28.51 - 22.58 = 5.93 x 0.16 = 0.95

D.T.B. - D.T.W. x gal./ft. = Gals./well vol.)

Gals./well vol. X 3 = Total Volume to be removed) Gals./well vol.:

Time	Depth to Water (D.T.W.)	Depth to Bottom (D.T.B.)	Volume Removed (gal.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
0840	22.58		0.8								
0853				6.63	3301	18.79	Clear	N	N	2.66	31.8
0854				6.63	3300	18.81	"	N	N	2.57	33
0855			0.9	6.63	3301	18.81	Clear	N	N	2.56	32.8
0857				6.64	3302	18.80	Clear	N	N	2.56	33.5
0990	22.70	28.51									
		Final Sample Readings									

Comments: pump @ 150mL/min
Sampled @ 0925
VOCs, SVOCs, Metals

Well I.D.	Gallons/ft
1"	0.04
1.25"	0.06
(2")	0.16
4"	0.65

☐ Blank Taken ☐ Time:

Well Duplicate ☐ No.:

Signature:

Date: 06 27 06

Air Monitoring

Location	Hnu/PPM	LEL %	O_2 %	H_2S/PPM	CO/PPM

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Well Purging and Ground Water Sampling Form

Well No.: MW-06 Site: OA2 RI, Fairmont City, Project No.: C-1727

Purging Method: ☐ Pumped ☐ Bailed ☒ Micropurge ☐ Other: _____

Pump Type: Peristaltic GeoPump II Bailer Type: _____

Weather Conditions: Sunny, Warm

Volume Calculations: 27.11 - 22.38 = 4.73 x 0.16 = 0.76 gallons

D.T.B. - D.T.W. x gal./ft. = Gals./well vol.)

Gals./well vol. X 3 = Total Volume to be removed) Gals./well vol.: _____

0925 - Began

Time	Depth to Water (D.T.W.)	Depth to Bottom (D.T.B.)	Volume Removed (gal.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
0925	22.38	27.11	0.5	6.93 ~~6.95~~	792	16.98	Colorless	N	Clear	1.12	30.0
			0.55	6.93	791	16.93				1.30	23.4
			0.6	6.93	791	16.79				1.21	16.4
			0.7	6.94	791	16.68				1.19	14.8
			0.75	6.94	788	16.82				1.06	13.9
			0.8	6.94	786	16.80				1.03	11.2
			0.9	6.72	787	16.77				1.13	21.7
			0.95	6.86	788	16.62				1.10	19.4
			0.99	6.94	787	16.64				1.01	15.6
			1.0	6.92	786	16.72				0.97	14.5
0945		Final Sample Readings	1.1	6.95	784	16.81				0.81	10.6

Comments: Measured flow ≤200 mL/minute

Well I.D.	Gallons/ft
1"	0.04
1.25"	0.06
2"	0.16
4"	0.65

Air Monitoring

Location	Hnu/PPM	LEL %	0_2 %	H_2S/PPM	CO/PPM

Blank Taken ☐ Time: 0945

Well Duplicate ☐ No.: _____

Signature: Catrina Thomson

Date: 7/7/06

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Well Purging and Ground Water Sampling Form

Well No.: MW-07 Site: OA2 R1 Fairmont City, IL Project No.: C-1127

Purging Method: ☐ Pumped ☐ Bailed ☒ Micropurge ☐ Other:

Pump Type: Geopump II Bailer Type:

Weather Conditions:

Volume Calculations: 28.46 - 21.79 = 6.67 x 0.16 = 1.07

(D.T.B. - D.T.W. x gal./ft. = Gals./well vol.)

(Gals./well vol. X 3 = Total Volume to be removed) Gals./well vol.:

1616 - Bag

Time	Depth to Water (D.T.W.)	Depth to Bottom (D.T.B.)	Volume Removed (gal.)	pH	µS/cm Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
1640	21.79	28.96	0.6	7.12	760	18.44	Colorless	N	Clear	4.84	74.0
			0.75	7.08	759	18.49	↓		↓	4.51	70.8
1645			0.80	7.08	760	18.45					
			0.90	7.08	760	18.40				4.33	62.5
1646			1.0	7.08	759	18.45	↓		↓	4.16	56.3
			1.1	7.08	759	18.46				4.13	54.8
				7.08	760	18.46				4.10	53.7
				7.08	760	18.44				4.10	53.1
				7.08	760	18.38				4.10	52.7
	1650	Final Sample Readings		7.08	760	18.38				4.10	52.7

Comments: Measured flow 300 mL/min.
Sampled 1650

Well I.D.	Gallons/ft
1"	0.04
1.25"	0.06
2"	0.16
4"	0.65

Air Monitoring

Location	Hnu/PPM	LEL %	0_2 %	H_2S/PPM	CO/PPM

☐ Blank Taken ☐ Time:

Well Duplicate ☐ No.:

Signature: Bruce Thomson

Date: 7-6-06

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Well Purging and Ground Water Sampling Form

Well No.: MW-24 Site: QAZ Fairmont City RI Project No.: C-1227

Purging Method: ☐ Pumped ☐ Bailed ☒ Micropurge ☐ Other: _____

Pump Type: Geopump 4/YSI Bailer Type: _____

Weather Conditions: _____

Volume Calculations: 0808 19.2 - 16.13 = 2.97 x 0.16 = 0.48 one well volume.

D.T.B. - D.T.W. x gal./ft. = Gals./well vol.)

Gals./well vol. X 3 = Total Volume to be removed) Gals./well vol.: _____

0808- setup &

Time	Depth to Water (D.T.W.)	Depth to Bottom (D.T.B.)	Volume Removed (gal.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
0838 0808	16.13	19.10		6.36	26.59	16.92	Colorless Clear		Clear	1.54	122.7
0835				6.37	26.93	16.99	↓		↓	0.83	159.6
0837			0.5	6.37	2708	17.02	↓		↓	0.69	155.3
0840				6.37	2723	16.91	↓		↓	0.56	151.2
				6.38	2724	16.89	↓ Slight tint		↓	0.55	150.5
0842			0.75	6.38	2726	16.84	↓ Slight Tint		↓	0.54	150.0
		Final Sample Readings									

Comments: Timed flow @ 500 mL/min flow rate turned down slightly
collected @ 0845

Well I.D.	Gallons/ft
1"	0.04
1.25"	0.06
2"	0.16
4"	0.65

☐ Blank Taken ☐ Time: 0845

Well Duplicate ☐ No.: ~~MW25/D.P.T~~ No Dup

Signature: Patricia Thomson

Date: 7.6.06

Air Monitoring

Location	Hnu/PPM	LEL %	0_2 %	H_2S/PPM	CO/PPM

ENTACT
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Well Purging and Ground Water Sampling Form

Well No.: MW-29 Site: OAZ RI Project No.: C-1727

urging Method: ☒ Pumped ☐ Bailed ☒ Micropurge ☐ Other: _____

ump Type: GeoPump 2 Bailer Type: _____

Veather Conditions: cloudy, 70s

Volume Calculations: 18.30 − 16.16 = 2.14 × ~~0.16~~ 0.06 = ~~0.34~~ 0.13 × 5 = ~~1.7 g~~ 0.64 g

D.T.B. - D.T.W. x gal./ft. = Gals./well vol.)

Gals./well vol. X 3 = Total Volume to be removed) Gals./well vol.: _____

Time	Depth to Water (D.T.W.)	Depth to Bottom (D.T.B.)	Volume Removed (gal.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
0852	16.16		0.5	6.16	2521	17.18	Colorless	N	N	4.96	97.5
0915			<1.0	6.03	2528	17.23	↓	N	N	3.63	111.4
0921				6.13	2531	17.23		N	N	1.13	105.7
				6.13	2531	17.26	↓	N	N	1.00	109.5
	16.32	~~16.32~~									
		Final Sample Readings									

Comments: 8 VOCs, SVOCs, Metals

Well I.D.	Gallons/ft
1"	0.04
1.25"	0.06
2"	0.16
4"	0.65

sampled @

☐ Blank Taken ☐ Time: 0940

Well Duplicate ☐ No.: _____

Signature _____

Date 06 28 06

Air Monitoring

Location	Hnu/PPM	LEL %	O_2 %	H_2S/PPM	CO/PPM

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ie Nation in Customer Care

Well Purging and Ground Water Sampling Form

Well No.: MW-01 Site: Fairmont City - RIFS Project No.: C-1727

Purging Method: ☐ Pumped ☐ Bailed ☒ Micropurge ☐ Other:

Pump Type: Low Flow Peristaltic pump (Geopump 2) Bailer Type:

Weather Conditions: Partly cloudy 55°

Volume Calculations: 24.81 - 18.06 = 6.75 x 0.16 = 1.08

(D.T.B. - D.T.W. x gal./ft. = Gals./well vol.)

(Gals./well vol. X 3 = Total Volume to be removed) Gals./well vol.: 1.08 x 3 = 3.24

Time	Depth to Water (D.T.W.)	Depth to Bottom (D.T.B.)	Volume Removed (gal.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
1056	18.06	24.81									
1140			1.0	9.48	0.904	16.34	milky white	N	cloudy	9.3	-122.8
1141				9.46	0.904	16.47				9.44	-124.0
1144				9.57	0.904	16.57				9.58	-125.2
1146			1.2	9.46	0.904	16.55				9.43	-125.3
				9.37	0.905	16.50				9.37	-124.2
1147				9.36	0.905	16.51				9.37	-126.4
				9.37	0.905	16.51				9.39	-127.6
1148			1.3	9.39	0.904	16.54				9.35	-128.7
		Final Sample Readings									

Comments: 150 mL/min
Sampled @ 1151
* settling of v. fine, white ppt (precipitant)

Well I.D.	Gallons/ft
1"	0.04
1.25"	0.06
2"	0.16
4"	0.65

Blank Taken ☐ Time:
Well Duplicate ☐ No.:
Signature:
Date: 12/4/06

Air Monitoring

Location	Hnu/PPM	LEL %	O_2 %	H_2S/PPM	CO/PPM

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Well Purging and Ground Water Sampling Form

Well No.: MW-02 Site: Fairmont City - RIFS Project No.: C-1727

Purging Method: ☐ Pumped ☐ Bailed ☒ Micropurge ☐ Other:

Pump Type: Low Flow Geopump 2 Bailer Type:

Weather Conditions: Partly cloudy 55°

Volume Calculations: 23.95 - 19.81 = 4.14 × 0.16 = 0.66

(D.T.B. - D.T.W. x gal./ft. = Gals./well vol.)

(Gals./well vol. X 3 = Total Volume to be removed) Gals./well vol.: .66 × 3 = 1.98

Time	Depth to Water (D.T.W.)	Depth to Bottom (D.T.B.)	Volume Removed (gal.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
1143	19.81	23.95									
1602			0.5	7.78	1.254	16.47	colorless	N	clear	12.3	-72.4
1603				7.80	1.250	16.54				12.0	-114.8
1604				7.82	1.245	16.52				11.7	-84.9
1605				7.88	1.245	16.49				11.8	-98.0
1606				7.85	1.244	16.43				11.8	-85.7
1608				7.84	1.242	16.37				11.6	-89.0
1610				7.84	1.241	16.32				11.3	-87.2
1611				7.84	1.241	16.31				11.2	-86.9
1612		Final Sample Readings		7.84	1.242	16.23				10.7	-70.6

Comments: 120 mL/min

Well I.D.	Gallons/ft
1"	0.04
1.25"	0.06
2"	0.16
4"	0.65

Blank Taken ☐ Time: 1615

Well Duplicate ☐ No.:

Signature:

Date: 12/13/06

Air Monitoring

Location	Hnu/PPM	LEL %	0_2 %	H_2S/PPM	CO/PPM

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The Nation in Customer Care

Well Purging and Ground Water Sampling Form

Well No.: MW-03 Site: Fairmont City · RIFS Project No.: C-1727

Purging Method: ☐ Pumped ☐ Bailed ☒ Micropurge ☐ Other:

Pump Type: Low Flow Geospump 2 Bailer Type:

Weather Conditions: Partly cloudy 55°

Volume Calculations: 26.21 - 8.74 = 17.47 x .16 = 2.79

(D.T.B. - D.T.W. x gal./ft. = Gals./well vol.)

(Gals./well vol. X 3 = Total Volume to be removed) Gals./well vol.: 2.79 x 3 = 8.4

Time	Depth to Water (D.T.W.)	Depth to Bottom (D.T.B.)	Volume Removed (gal.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
1202	8.74	26.21									
1519				7.24	1.697	18.12	colorless	N	clear	11.8	-59.5
1520				7.27	1.700	18.15				11.5	-63.2
1521				7.28	1.711	18.10				11.3	-78.5
1522				7.29	1.789						
1530				7.31	1.831	18.01				10.7	-69.3
1531				7.29	1.841	18.01				10.7	-65.6
1532				7.28	1.845	18.00				10.6	-61.0
1533				7.27	1.853	18.01				10.5	-48.3
		Final Sample Readings									

Comments: 150 mL/min

Well I.D.	Gallons/ft
1"	0.04
1.25"	0.06
2"	0.16
4"	0.65

Field Blank Taken ☐ Time: ~~1528~~ 1534 avg.

Duplicate ☐ No.:

Signature:

Date: 12/3/06

Air Monitoring

Location	Hnu/PPM	LEL %	0_2 %	H_2S/PPM	CO/PPM

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Well Purging and Ground Water Sampling Form

Well No.: MW-04 Site: Fairmont City · RIFS Project No.: C-1727

Purging Method: ☐ Pumped ☐ Bailed ☒ Micropurge ☐ Other: _____

Pump Type: Low flow Geopump 2 Bailer Type: _____

Weather Conditions: Partly cloudy 55°

Volume Calculations: 22.60 - 18.33 = 4.27 x 0.16 = 0.68

(D.T.B. - D.T.W. x gal./ft. = Gals./well vol.)

(Gals./well vol. X 3 = Total Volume to be removed) Gals./well vol.: 0.68 x 3 = 2.05

Time	Depth to Water (D.T.W.)	Depth to Bottom (D.T.B.)	Volume Removed (gal.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
1222	18.33	22.60									
0901			0.5	7.2	0.934	16.93	clear	N		15.8	-122.1
~~0854~~ 0903				7.19	0.936	16.99	clear	N		15.2	-125.9
0904				7.19	0.939	16.98	clear	N		14.9	-126.2
0905				7.19	0.941	17.05	clear	N		14.7	-127.8
0906				7.20	0.945	16.96	clear	N		14.5	-127.2
0907				7.20	0.946	16.95	clear	N		14.3	-128.5
				7.20	0.947	16.95	clear	N		14.3	-128.6
		Final Sample Readings									

Comments: 100 ~~ml~~ mL/min
sample collected @ 0909

Well I.D.	Gallons/ft
1"	0.04
1.25"	0.06
2"	0.16
4"	0.65

Blank Taken ☐ Time: 0909

Well Duplicate ☐ No.: _____

Signature: _____

Date: 12/18/06

Air Monitoring

Location	Hnu/PPM	LEL %	0_2 %	H_2S/PPM	CO/PPM

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Well Purging and Ground Water Sampling Form

Well No.: MW-05 Site: Fairmont City - RIFS Project No.: C-1727

Purging Method: ☐ Pumped ☐ Bailed ☒ Micropurge ☐ Other: _____

Pump Type: Low Flow Geopump 2 Bailer Type: _____

Weather Conditions: Partly cloudy 55°

Volume Calculations: 28.51 - 22.76 = 5.75 x 0.16 = 0.92

(D.T.B. - D.T.W. x gal./ft. = Gals./well vol.)

(Gals./well vol. X 3 = Total Volume to be removed) Gals./well vol.: 0.92 x 3 = 2.76

Time	Depth to Water (D.T.W.)	Depth to Bottom (D.T.B.)	Volume Removed (gal.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
1417	22.76	28.51									
0947											
			0.5	7.27	3.223	16.22	colorless	N	clear	16.7	7.8
0949				7.29	3.223	16.17				16.5	4.5
0950				7.31	3.218	16.25				16.1	2.5
0951				7.28	3.219	16.25				16.0	1.6
0952				7.30	3.219	16.29				15.8	-0.1
		Final Sample Readings									

Comments: ~100 ~~ppm~~ mL/min
Samples collected @ 1000

Well I.D.	Gallons/ft
1"	0.04
1.25"	0.06
2"	0.16
4"	0.65

Blank Taken ☐ Time: 1000

Well Duplicate ☐ No.: _____

Signature: _____

Date: 12/13/06

Air Monitoring

Location	Hnu/PPM	LEL %	0_2 %	H_2S/PPM	CO/PPM

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The Nation in Customer Care

Well Purging and Ground Water Sampling Form

Well No.: MW-06 Site: Fairmont City · RIFS Project No.: C-1727

Purging Method: ☐ Pumped ☐ Bailed ☒ Micropurge ☐ Other:

Pump Type: Low Flow Peristaltic Pump (Geopump 2) Bailer Type:

Weather Conditions: Partly cloudy 55°

Volume Calculations: 27.12 - 22.11 = 5.01 x 0.16 = 0.80

(D.T.B. - D.T.W. x gal./ft. = Gals./well vol.)

(Gals./well vol. X 3 = Total Volume to be removed) Gals./well vol.: 0.80 x 3 = 2.4

Time	Depth to Water (D.T.W.)	Depth to Bottom (D.T.B.)	Volume Removed (gal.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
1402	22.11	27.12									
1049			0.9	9.06	0.756	15.26	colorless	N	clear	11.1	-84.1
1051			1.0	9.08	0.757	15.19				10.9	-88.5
1053				9.13	0755	15.35				10.5	-98.6
1054			1.1	9.14	0.756	15.28				10.3	-102.5
				9.12	0.756	15.27				10.2	-103.7
		Final Sample Readings									

Comments: 150 mL/min

Sampled @ 1857

Well I.D.	Gallons/ft
1"	0.04
1.25"	0.06
2"	0.16
4"	0.65

Blank Taken ☐ Time:

Well Duplicate ☐ No.:

Signature:

Date: 12/4/06

Air Monitoring

Location	Hnu/PPM	LEL %	0_2 %	H_2S/PPM	CO/PPM

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Well Purging and Ground Water Sampling Form

Well No.: MW-07 Site: Fairmont City · RIFS Project No.: C-1727

Purging Method: ☐ Pumped ☐ Bailed ☒ Micropurge peristaltic pump ☐ Other:

Pump Type: Low Flow Geopnmp 2 Bailer Type:

Weather Conditions: Partly cloudy 55°

Volume Calculations: 28.12 − 21.61 = 6.51 * 0.16 = 1.04

(D.T.B. - D.T.W. x gal./ft. = Gals./well vol.)

(Gals./well vol. X 3 = Total Volume to be removed) Gals./well vol.: 1.04 * 3 = 3.12

Time	Depth to Water (D.T.W.)	Depth to Bottom (D.T.B.)	Volume Removed (gal.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
1351	21.61	28.12									
0959			0.9	8.98	0.729	15.58	colorless	N	clear	16.2	-64.9
1001				9.09	0.728	15.63				15.4	-64.0
1002				9.33	0.729	15.64				14.9	-67.4
1003			1.0	9.20	0.729	15.61				14.4	-66.7
1004				9.39	0.729	15.63				14.2	-66.0
1005				9.40	0.728	15.69				14.0	-68.5
				9.41	0.729	15.72				13.8	-69.8
				9.42	0.728	15.73				13.8	-71.5
		Final Sample Readings									

Comments: 150 mL/min
Sampled @ 1008

Well I.D.	Gallons/ft
1"	0.04
1.25"	0.06
2"	0.16
4"	0.65

Blank Taken ☐ Time:

Well Duplicate ☐ No.:

Signature:

Date: 12 14 06

Air Monitoring

Location	Hnu/PPM	LEL %	0_2 %	H_2S/PPM	CO/PPM

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Well Purging and Ground Water Sampling Form

Well No.: P-01 Site: Fairmont City · RIFS Project No.: C-1727

Purging Method: ☒ Pumped ☐ Bailed ☐ Micropurge ☐ Other: _____

Pump Type: Geopump 2 low flow Bailer Type: _____

Weather Conditions: Partly cloudy 55°

Volume Calculations: 25.61 - 22.47 = 3.14 x .16 = 0.50

(D.T.B. - D.T.W. x gal./ft. = Gals./well vol.)

(Gals./well vol. X 3 = Total Volume to be removed) Gals./well vol.: 0.5 x 3 = 1.5

Time	Depth to Water (D.T.W.)	Depth to Bottom (D.T.B.)	Volume Removed (gal.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
1215	22.47	25.61									
1145			0.5	7.09	0.612	18.21	~~clear~~ colorless	N	clear	20.9	32.0
1146				7.10	0.611	18.19				20.5	29.8
1147			0.75	7.11	0.612	18.14				20.4	27.6
1148				7.11	0.609	18.11				20.1	28.6
1149			1.0	7.11	0.609	18.18				19.8	26.8
1150				7.12	0.610	18.09				19.8	23.6
1151				7.13	0.611	18.02				19.6	20.4
1152			1.2	7.13	0.611	18.03				19.5	19.2
		Final Sample Readings									

Comments: 150 ml/min
sample collected @ 1200

Well I.D.	Gallons/ft
1"	0.04
1.25"	0.06
2"	0.16
4"	0.65

Blank Taken ☐ Time: 1200

Well Duplicate ☑ No.: P-01-D

Signature: [signature]

Date: 12/13/06

Air Monitoring

Location	Hnu/PPM	LEL %	0_2 %	H_2S/PPM	CO/PPM

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Well Purging and Ground Water Sampling Form

Well No.: P.02 Site: Fairmont City · RIFS Project No.: C-1727

Purging Method: ☐ Pumped ☐ Bailed ☒ Micropurge ☐ Other:

Pump Type: Low Flow Geopump 2 Bailer Type:

Weather Conditions: Partly cloudy 55°

Volume Calculations: 30.41 - 25.10 = 5.31 x 0.16 = 0.849

(D.T.B. - D.T.W. x gal./ft. = Gals./well vol.)

(Gals./well vol. X 3 = Total Volume to be removed) Gals./well vol.: 0.85 x 3 = 2.55

Time	Depth to Water (D.T.W.)	Depth to Bottom (D.T.B.)	Volume Removed (gal.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
1235	25.10	30.41									
1043			0.60	7.60	3.019	16.32	colorless	N	clear	15.9	-60.0
1045				7.56	3.022	16.30				16.2	-60.0
1046				7.54	3.022	16.30				16.9	-62.0
1047				7.57	3.017	16.45				18.5	-64.8
1050				7.65	3.027	16.55				17.6	-73.7
1051				7.67	3.027	16.58				16.6	-78.3
1052				7.67	3.028	16.64				15.7	-82.6
		Final Sample Readings									

Comments: 150 mL/min

Well I.D.	Gallons/ft
1"	0.04
1.25"	0.06
2"	0.16
4"	0.65

Blank Taken ☐ Time: 1105

Well Duplicate ☑ No.: P.02 D

Signature:

Date: 12-13-06

Air Monitoring

Location	Hnu/PPM	LEL %	0_2 %	H_2S/PPM	CO/PPM

ENTACT
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Well Purging and Ground Water Sampling Form

Well No.: P. 03 Site: Fairmont City · RIFS Project No.: C-1727

Purging Method: ☐ Pumped ☐ Bailed ☒ Micropurge ☐ Other: _____

Pump Type: Low Flow Geopump 2 Bailer Type: _____

Weather Conditions: Partly cloudy 55°

Volume Calculations: 30.5 - 23.02 = 7.48 x .16 = 1.19

(D.T.B. - D.T.W. x gal./ft. = Gals./well vol.)

(Gals./well vol. X 3 = Total Volume to be removed) Gals./well vol.: 1.19 x 3 = 3.59

Time	Depth to Water (D.T.W.)	Depth to Bottom (D.T.B.)	Volume Removed (gal.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
1154	23.02	30.50									
1421			1.0	7.67	6.374	17.50	colorless	N	clear	15.2	-79.7
1422				7.77	6.372	17.49				15.2	-85.2
1424				7.79	6.370	17.50				15.1	-79.4
1425				7.79	6.370	17.50				15.0	-76.2
				7.78	6.369	17.50				14.9	-80.7
				7.78	6.369	17.50				14.9	-82.4
1426				7.77	6.368	17.51				14.9	-86.2
		Final Sample Readings									

Comments: 100 mL/min

Well I.D.	Gallons/ft
1"	0.04
1.25"	0.06
2"	0.16
4"	0.65

Blank Taken ☐ Time: 1436

Well Duplicate ☐ No.: _____

Signature: _____

Date: 12/3/06

Air Monitoring

Location	Hnu/PPM	LEL %	0_2 %	H_2S/PPM	CO/PPM

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Well Purging and Ground Water Sampling Form

Well No.: MW-29 Site: Fairmont City RIFS Project No.: C-1727

Purging Method: ☐ Pumped ☐ Bailed ☒ Micropurge ☐ Other: _____

Pump Type: Low Flow Geopump 2 Bailer Type: _____

Weather Conditions: Partly cloudy 55°

Volume Calculations: 18.58 − 16.75 = 1.83 × 0.06 = 0.109

(D.T.B. - D.T.W. x gal./ft. = Gals./well vol.)

(Gals./well vol. X 3 = Total Volume to be removed) Gals./well vol.: .10 × 3 = 0.33

Time	Depth to Water (D.T.W.)	Depth to Bottom (D.T.B.)	Volume Removed (gal.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
1123	16.75	18.58									
0902			0.1	7.03	2.286	16.69	colorless	N	cloudy	43.1	51.8
0903				7.64	2.299	16.75		N	clearing	27.6	-11.5
0905			0.2	7.80	2,322	16.91				16.9	-42.6
0906				7.82	2,327	16.92				16.2	-45.3
				7.83	2,328	16.97				16.3	-40.9
0907			0.5	7.82	2,331	16.94				15.3	-43.4
		Final Sample Readings									

Comments: 120 mL/min
sampled @ 0909

Well I.D.	Gallons/ft
1"	0.04
(1.25")	0.06
2"	0.16
4"	0.65

Blank Taken ☐ Time: _____

Well Duplicate ☐ No.: _____

Signature: [signature]

Date: 12/14/06

Air Monitoring

Location	Hnu/PPM	LEL %	0_2 %	H_2S/PPM	CO/PPM

ENTACT
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Well Purging and Ground Water Sampling Form

Well No.: MW-24 Site: Fairmont City - RIFS Project No.: C-1727

Purging Method: ☐ Pumped ☐ Bailed ☒ Micropurge ☐ Other:

Pump Type: Low Flow Grundfos 2 Bailer Type:

Weather Conditions: Partly cloudy 55°

Volume Calculations: 19.01 - 16.47 = 2.54 x 0.16 = 0.40

(D.T.B. - D.T.W. x gal./ft. = Gals./well vol.)

(Gals./well vol. X 3 = Total Volume to be removed) Gals./well vol.: 0.40 x 3 = 1.20

Time	Depth to Water (D.T.W.)	Depth to Bottom (D.T.B.)	Volume Removed (gal.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
1133	16.47	19.01									
0825			0.4	8.12	1.186	16.08	grey/tan milky	N	cloudy	20.1	-41.0
0826				8.12	1.186	16.06	"	"	"	19.3	-41.0
0				8.12	1.188	16.06	"	"	"	19.1	-39.6
0827				8.12	1.196	16.05	"	"	"	18.3	-40.7
0828			0.5	8.07	1.239	16.08	colorless	N	clear	17.6	-45.9
0829				8.06	1.261	16.06				17.4	-40.1
				8.05	1.263	16.07				17.6	-39.5
		Final Sample Readings									

Comments: 150 mL/min
sampled @ 0831

Well I.D.	Gallons/ft
1"	0.04
1.25"	0.06
2"	0.16
4"	0.65

Blank Taken ☐ Time: 0831

Well Duplicate ☐ No.:

Signature:

Date: 12-19-06

Air Monitoring

Location	Hnu/PPM	LEL %	0_2 %	H_2S/PPM	CO/PPM

CONTACT
Leading the Nation in Customer Care

Well Purging and Ground Water Sampling Form

Well No.: MW-01 Site: Fairmont City OAZ Project No.: C-1727

Purging Method: ☐ Pumped ☐ Bailed ☐ Micropurge ☐ Other: _____

Pump Type: _____ Bailer Type: _____

Weather Conditions: HOT, muggy

Volume Calculations: 22.68 - 16.86 = 5.82 × 0.16 = 0.93 gallons

(D.T.B. - D.T.W. x gal./ft. = Gals./well vol.)

(Gals./well vol. X 3 = Total Volume to be removed) Gals./well vol.: 0.93

Time	Depth to Water (D.T.W.)	Depth to Bottom (D.T.B.)	Volume Removed (gal.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
1900	16.86	22.68	0.93	7.09	.711	17.61	Slty, Cloudy	Odorless	Slty Cloudy	1.54	-6.7
		Final Sample Readings									

Comments: No samples collected - only water quality parameters after evacuating 1 well volume

Well I.D.	Gallons/ft
1"	0.04
1.25"	0.06
2"	0.16
4"	0.65

Blank Taken ☐ Time: _____

Well Duplicate ☐ No.: _____

Signature: Catina Thomson

Date: 7-17-07

Air Monitoring

Location	Hnu/PPM	LEL %	0_2 %	H_2S/PPM	CO/PPM

CONTACT
Lead..., the Nation in Customer Care

Well Purging and Ground Water Sampling Form

Well No.: MW-02 Site: Fairmont City 012 Project No.: C- 1727

Purging Method: ☐ Pumped ☐ Bailed ☒ Micropurge ☐ Other: _____

Pump Type: _____ Bailer Type: _____

Weather Conditions: HOT, muggy

Volume Calculations: 23.71 - 18.37 = 5.34 x 0.16 = 0.85

(D.T.B. - D.T.W. x gal./ft. = Gals./well vol.)

(Gals./well vol. X 3 = Total Volume to be removed) Gals./well vol.: _____

Time	Depth to Water (D.T.W.)	Depth to Bottom (D.T.B.)	Volume Removed (gal.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
1848	23.71	18.37	1	6.94	0.873	18.9	Colorless		Clear	5.57	-4.8
		Final Sample Readings									

Comments: No Sample Collected - only water quality parameters

Well I.D.	Gallons/ft
1"	0.04
1.25"	0.06
2"	0.16
4"	0.65

Blank Taken ☐ Time: _____

Well Duplicate ☐ No.: _____

Signature: Patricia Thomson

Date: 7/12/07

Air Monitoring

Location	Hnu/PPM	LEL %	0_2 %	H_2S/PPM	CO/PPM

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Well Purging and Ground Water Sampling Form

7-17-07

Well No.: MW-04 Site: Fairmont Project No.: C-1727

Purging Method: ☐ Pumped ☐ Bailed ☒ Micropurge ☐ Other: _____

Pump Type: _____ Bailer Type: _____

Weather Conditions: _____

Volume Calculations: 22.60 - 17.07 = 5.53' x 0.16 = 0.885 gallons (14.16 cups)

(D.T.B. - D.T.W. x gal./ft. = Gals./well vol.)

(Gals./well vol. X 3 = Total Volume to be removed) Gals./well vol.: Removed 0.885 gallons

Time	Depth to Water (D.T.W.)	Depth to Bottom (D.T.B.)	Volume Removed (gal.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
0935 0945	17.07		0.80	6.47	1.161	20.2	Color less Clear	No	Clear	0.69 6.90	-124.5
0948			.85	6.48	1.159	20.2	Clear	No		0.45	-125.2
0953			0.9	6.49	1.146	20.38	Clear	No		0.4	-120.9
0958			0.95	6.49	1.138	20.53	Clear	No		0.32	-117.4
1003			1.0	6.50	1.130	20.65	Clear	No		0.29	-124.3
1016			1.05	6.53	1.156	20.39	Clear	No	↓	0.64	-124.5
1019		Final Sample Readings									

Comments: ≤ 0.10 L/min

Well I.D.	Gallons/ft
1"	0.04
1.25"	0.06
2"	0.16
4"	0.65

Blank Taken ☐ Time: 1019

Well Duplicate ☐ No.: _____

Signature: Cal Thomson

Date: 07 17 07

Air Monitoring

Location	Hnu/PPM	LEL %	0_2 %	H_2S/PPM	CO/PPM

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Well Purging and Ground Water Sampling Form

7-17-07.

Well No.: MW-05 Site: Fairmont City OAZ Project No.: C-1727.

Purging Method: ☐ Pumped ☐ Bailed ☒ Micropurge ☐ Other: _____

Pump Type: _____ Bailer Type: _____

Weather Conditions: _____

Volume Calculations: 28.31 - 21.85 = 6.46' x 0.16 = 1.03 gallons.

(D.T.B. - D.T.W. x gal./ft. = Gals./well vol.)

(Gals./well vol. X 3 = Total Volume to be removed) Gals./well vol.: Remove 1 well volume.

Time	Depth to Water (D.T.W.)	Depth to Bottom (D.T.B.)	Volume Removed (gal.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
1138	21.85		1.0	6.51	3.238	21.14	Colorless Clear		Clear	2.61	-4.5
1143			1.05	6.59	3.225	19.92				1.07	+5.1
1148			1.10	6.60	3.226	19.66				0.94	9.0
1153			1.10	6.60	3.226	19.65				0.72	11.8
1158			1.15	6.61	3.225	19.96				0.62	12.3
1203			1.15	6.61	3.229	20.01				0.58	9.3
1208			1.2	6.63	3.225	19.7				0.71	8.5
1213			1.20	6.60	3.231	19.46				0.50	12.1
~~1218~~			1.2	6.61	3.222	19.62				0.44	15.2
1221			1.25	6.61	3.220	19.45				0.41	15.5
1220		Final Sample Readings	1.25	6.61	3.218	19.47				0.39	14.6

Comments: 1.25 L/min

Well I.D.	Gallons/ft
1"	0.04
1.25"	0.06
2"	0.16
4"	0.65

Blank Taken ☐ Time: 1230

Well Duplicate ☑ No.: MW-05/FD

Signature: Cat Thomson

Date: 7-17-07.

Air Monitoring

Location	Hnu/PPM	LEL %	0_2 %	H_2S/PPM	CO/PPM

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Well Purging and Ground Water Sampling Form

7-17-07.

Well No.: MW-06 Site: Fairmont City OAZ Project No.: C-1727

Hot, Humid, Overcast

Purging Method: ☐ Pumped ☐ Bailed ☒ Micropurge ☐ Other: _____

Pump Type: Geopump II Bailer Type: _____

Weather Conditions: _____

Volume Calculations: 26.85 - 21.45 = 5.40 x 0.16 = 0.86 gallons x 16 = 13.8 cups

(D.T.B. - D.T.W. x gal./ft. = Gals./well vol.)

(Gals./well vol. X 3 = Total Volume to be removed) Gals./well vol.: Remove 1 well

Time	Depth to Water (D.T.W.)	Depth to Bottom (D.T.B.)	Volume Removed (gal.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
1412			0.86	6.83	0.773	18.13	Clear	N	-	1.98	-40.2
1417				6.85	0.772	18.32		N		1.20	-35.8
1422				6.85	0.77	18.09				1.11	-32.7
1426				6.85	0.77	17.94				1.10	-28.2
1432				6.90	0.77	17.95				0.87	-54.4
1437				6.86	0.769	17.97				0.70	-27.7
1443				6.87	0.770	17.85				0.65	-26.0
		Final Sample Readings									

Comments: < 0.12 L/min

Well I.D.	Gallons/ft
1"	0.04
1.25"	0.06
2"	0.16
4"	0.65

Blank Taken ☐ Time: 1450.

Well Duplicate ☐ No.: _____

Signature: Pat Thomson

Date: 7 17 07

Air Monitoring

Location	Hnu/PPM	LEL %	0_2 %	H_2S/PPM	CO/PPM

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Well Purging and Ground Water Sampling Form

7-17-07

Well No.: MW-7 Site: Fairmont City, OAZ Project No.: C-1727

Purging Method: ☐ Pumped ☐ Bailed ☒ Micropurge ☐ Other: _____

Pump Type: Geopump II Bailer Type: _____

Weather Conditions: _____

Volume Calculations: 27.91 - 20.91 = 7ft x 0.16 = 1.12 gal = 18 cups

(D.T.B. - D.T.W. x gal./ft. = Gals./well vol.)

(Gals./well vol. X 3 = Total Volume to be removed) Gals./well vol.: Remove 1 well volume

Time	Depth to Water (D.T.W.)	Depth to Bottom (D.T.B.)	Volume Removed (gal.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
	20.91	27.91									
1615			1.1	6.92	0.746	19.27		N	Clear	3.04	-20.6
1620				6.97	0.746	19.39				2.46	-22.3
1625				6.97	0.744	19.28				2.25	-21.0
				6.97	0.744	19.28				2.18	-21.7
		Final Sample Readings									

Comments: ~0.10 gal/min

Well I.D.	Gallons/ft
1"	0.04
1.25"	0.06
2"	0.16
4"	0.65

Blank Taken ☐ Time: 1630

Well Duplicate ☐ No.: _____

Signature: Patricia Thomson

Date: 7 17 07

Air Monitoring

Location	Hnu/PPM	LEL %	0_2 %	H_2S/PPM	CO/PPM

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Well Purging and Ground Water Sampling Form
Field Parameters Only

Well No.: P-1 Site: Fairmont City Project No.: C- 1727

Purging Method: ☐ Pumped ☐ Bailed ☐ Micropurge ☐ Other: _____

Pump Type: _____ Bailer Type: _____

Weather Conditions: _____

Volume Calculations: 30.28 - 21.41 = 8.87 x 0.16 = 0.136 GALLONS

(D.T.B. - D.T.W. x gal./ft. = Gals./well vol.)

(Gals./well vol. X 3 = Total Volume to be removed) Gals./well vol.: _____

Time	Depth to Water (D.T.W.)	Depth to Bottom (D.T.B.)	Volume Removed (gal.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
	21.41	30.28	0.15	6.08	6.408	21.82	Slight		Clear	1.50	-14.4
			0.2	6.06	6.423	21.27	"			0.71	-5.3
		Final Sample Readings									

Comments: No Sample Taken - Water Quality Parameters Collected after evacuating 1 well volume

Well I.D.	Gallons/ft
1"	0.04
1.25"	0.06
2"	0.16
4"	0.65

Blank Taken ☐ Time: _____

Well Duplicate ☐ No.: _____

Signature: Patricia Thomas

Date: 7-17-07

Air Monitoring

Location	Hnu/PPM	LEL %	O_2 %	H_2S/PPM	CO/PPM

ENTACT
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Well Purging and Ground Water Sampling Form

Well No.: P-02 Site: Fairmont City OA2 Project No.: C- 1727

Purging Method: ☐ Pumped ☐ Bailed ☒ Micropurge ☐ Other: _____

Pump Type: _____ Bailer Type: _____

Weather Conditions: _____

Volume Calculations: 25.36 - 24.22 = 1.14 x 0.16 = 0.18

(D.T.B. - D.T.W. x gal./ft. = Gals./well vol.)

(Gals./well vol. X 3 = Total Volume to be removed) Gals./well vol.: _____

Time	Depth to Water (D.T.W.)	Depth to Bottom (D.T.B.)	Volume Removed (gal.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
			0.2	6.37	0.695	19.28	Colorless	No	Clear	4.99	31.1
1755			0.3	6.23	0.605	19.05				4.58	53.7
		Final Sample Readings									

Comments: No Samples Collected - Water Quality Parameters measured after evacuating one well volume

Well I.D.	Gallons/ft
1"	0.04
1.25"	0.06
2"	0.16
4"	0.65

Blank Taken ☐ Time: _____

Well Duplicate ☐ No.: _____

Signature: _____

Date: _____

Air Monitoring

Location	Hnu/PPM	LEL %	0_2 %	H_2S/PPM	CO/PPM

CONTACT
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Well Purging and Ground Water Sampling Form

Well No.: P-03 Site: Fairmont City OA2 Project No.: C- 1727

Purging Method: ☐ Pumped ☐ Bailed ☒ Micropurge ☐ Other: _____

Pump Type: _____ Bailer Type: _____

Weather Conditions: _____

Volume Calculations: 30.14 - 22.03 = 8.11 x 0.16 = 1.3

(D.T.B. - D.T.W. x gal./ft. = Gals./well vol.)

(Gals./well vol. X 3 = Total Volume to be removed) Gals./well vol.: _____

Time	Depth to Water (D.T.W.)	Depth to Bottom (D.T.B.)	Volume Removed (gal.)	pH	Conduct. (MMHOS/CM)	Temp. (°C)	Color	Odor (Y/N)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
1815			~1.3	6.53	2280	20.4				0.54	10.8
1820			1.5	6.52	2,266	19.95	Colorless	N	Clear	0.46	9.4
		Final Sample Readings									

Comments: On-Site Water Quality Parameters Collected - Evacuated one well volume prior to collection

Well I.D.	Gallons/ft
1"	0.04
1.25"	0.06
2"	0.16
4"	0.65

Blank Taken ☐ Time: _____

Well Duplicate ☐ No.: _____

Signature: Palma Thomson

Date: _____

Air Monitoring

Location	Hnu/PPM	LEL %	0_2 %	H_2S/PPM	CO/PPM